PREPARED FOR AARAV · 11 NOVEMBER 2026

Aarav, engineering fits you. Science with Maths leads to Computer Engineering or CSE.

This report helps you plan engineering admissions, compare colleges and explore software, robotics and AI through small projects.

THE DECISION IN FRONT OF YOU

Decide your JEE Main application plan by November 2026, before registration closes on 22 November.

Our recommendation

- Decide your **JEE Main application plan** in **November 2026**.
- Explore **Software Engineer** first through **Computer Engineering/CSE**, using your logical strengths.
- Keep **AI, data and robotics** open while comparing appealing branches at reputable colleges.
- Delay choosing a narrow **specialisation** until you have tested the work.

YOUR JOURNEY, FROM TODAY TO COLLEGE

You are here	Apply JEE	Test interests	JEE Main	Board exams	MHT-CET	Choose college
Nov 2026	**Nov 2026**	**Nov–Dec 2026**	**Jan 2027**	**2027**	**Mar–May 2027 (expected)**	**2027**
Grade 12	Grade 12	Grade 12	Grade 12	Grade 12	Grade 12	After Grade 12
Keep engineering options open	Apply by 22 November	Try three small projects	Sit Paper 1	Complete CBSE board exams	Register when announced; sit	Compare offers; accept seat

(Each step is explained in this report. Dates more than a year away are estimated from past years.)

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1 · YOUR REPORT AT A GLANCE · PAGE 1 OF 2

Only have 5 minutes? Read these two pages

1 · WHAT WE KNOW ABOUT YOU

You enjoy **software, AI and robotics**, with strengths in **logic, science and building**. You saved **Software Engineer**, **Robotics Engineer** and **Data Scientist**, and want varied, practical work.

2 · WHAT WE SUGGEST

Build on **Science with Maths** through **Computer Engineering or CSE**, exploring **Software Engineer** first. Keep **AI, data and robotics** open while comparing college reputation with the subjects you would actually study.

3 · WHAT YOU NEED TO DO

Try **Homework tracker** in **November**, **Robot obstacle test** in **December**, and **Object classifier** in **January**. Decide your **JEE Main application plan** by **November 2026**.

YOUR FOUR CAREERS

Career	Fit	Why it fits you	Demand	Pay to start
Software Engineer	96%	You chose Building apps and websites. Software engineers turn these ideas into working products.	Growing	₹5–6 L a year
Robotics Engineer	91%	You chose Electronics and robotics. Robotics combines circuits, movement and code.	Growing	₹3 L a year
Machine Learning Engineer Not saved yet	89%	AI and data interests you. You build software that learns patterns.	Growing	₹5–6 L a year
Data Scientist	78%	You chose AI and data. You could turn patterns into useful predictions.	Growing	₹11–13 L a year Early-career salary band, not a fresher starting-pay estimate

Machine Learning Engineer is a close match you haven't saved; it fits you better than one of your saved careers, so it gets a full deep-dive. Fit shows how well a career matches what you told us, not your chance of success.

KEY DATES

When	What happens	What you do
Nov 2026	**Decide your JEE Main application plan**	Check registration requirements and confirm your plan
By 22 Nov 2026	JEE Main registration deadline	Submit application after checking the official notice
Jan 2027	JEE Main Paper 1	Sit your assigned exam session
2027	CBSE board exams	Complete exams and check admission eligibility
Mar–May 2027 (expected)	MHT-CET examination window, not yet confirmed	Register when announced; sit the PCM examination
2027	Engineering counselling and college seat acceptance	Compare offers, costs and branches; accept seat

*Exam-by-exam dates are on page **28**.*

1 · YOUR REPORT AT A GLANCE · PAGE 2 OF 2

Our conclusion, and your next steps

CONCLUSION

Choose Computer Engineering or CSE, and explore Software Engineer first.

Your interest in apps, logical strengths and enjoyment of building make software a strong first exploration. Computer Engineering or CSE builds on your Science with Maths background while keeping AI and data open. Robotics remains worth testing, especially if you enjoy hardware as much as coding.

YOUR NEXT STEPS

1 · Nov 2026 – Jan 2027

Test three kinds of technical work

Build a homework tracker, simulate robot obstacle avoidance and test an object classifier. Notice whether coding, debugging or experimenting holds your interest.

Details on page 22.

2 · Nov 2026

Confirm your entrance application plan

After checking the official notice and discussing costs, decide your JEE Main application plan. Submit by 22 November; keep MHT-CET preparation open.

3 · Nov 2026 – 2027

Strengthen subjects and update your shortlist

Review Mathematics, Physics and Chemistry marks; practise timed questions. Maintain Computer Science and English. Update this report with mock scores, budget, eligibility and project experiences.

4 · Jan–2027 admissions

Take exams and secure your seat

Sit JEE Main in January; register for MHT-CET when announced, with exams expected March–May. Complete counselling, compare affordable branches and colleges, then accept a 2027 seat.

Colleges and costs on pages 20–21.

COLLEGES TO AIM FOR

College	Why it's on your list	Getting in
For Software Engineer		
Vishwakarma Institute of Technology · Pune · near home · Private autonomous	Saved Pune option; computing fits your interests. Check CAP fees before considering institute-level admission.	Very competitive Last year's CET close 4,095; your rank not provided.
COEP Technological University · Pune · near home · Public university	Saved local option combining your reputation preference with computing; verify the programme name against counselling codes.	Very competitive Last year's CET CSE close 913; your rank not provided.
For Machine Learning Engineer		
Veermata Jijabai Technological Institute · Mumbai · Government-aided autonomous	Strong reputation-led computing contender if you are comfortable relocating to Mumbai and securing accommodation.	Very competitive Last year's CET close 119; your rank not provided.
PICT Pune · Pune · near home · Autonomous, SPPU-affiliated	Local computing alternative; student accounts describe a coding-focused environment, but also strict campus rules.	Very competitive Last year's CET close 1,151; your rank not provided.
For Data Scientist		
IIIT Pune · Pune · near home · Institute of National Importance, PPP	Computing-focused Pune option; check commute feasibility and JoSAA board eligibility alongside your JEE Main rank.	Very competitive Last year's JEE Main close 21,029; your rank not provided.
Prof. Ram Meghe Institute of Technology and Research · Badnera · Private autonomous	A less selective computing option within Maharashtra; weigh relocation against labs, internships and verified branch outcomes.	Competitive Last year's CET close 31,723; your rank not provided.

*All ten colleges on your list, with costs and admission: pages **20–21**.*

2 · ABOUT YOU

What we noticed about you

Built from your answers, marks and the careers you explored. These are clues, not labels.

HOW SURE WE ARE **Strong** *several answers agree* **Good** *a clear signal from fewer answers* **Moderate** *some signal; key details missing*

YOUR INTERESTS — Strong

WHAT WE KNOW?	You repeatedly choose apps, AI, electronics and robotics, and saved careers across these areas.
HOW WE KNOW?	Your selected interests and saved careers
WHAT IT MEANS?	**Explore computing first, with robotics as a practical comparison.**

YOUR STRENGTHS — Good

WHAT WE KNOW?	You report strengths in numbers, logic, science and building; marks and project evidence are missing.
HOW WE KNOW?	Your reported strengths and problem-solving choices
WHAT IT MEANS?	**Promising foundations; verify mathematics readiness and practical persistence.**

YOUR WORK STYLE — Good

WHAT WE KNOW?	You prefer varied problems, building and analysis, with both independent and team work in offices or labs.
HOW WE KNOW?	Your work-setting and problem-solving preferences
WHAT IT MEANS?	**Project-based technical work fits; repetitive testing still needs checking.**

GOALS & PREFERENCES — Moderate

WHAT WE KNOW?	You want good pay, security, innovation and reputable colleges within Maharashtra; your budget is unknown.
HOW WE KNOW?	Your priorities, study duration and location limits
WHAT IT MEANS?	**Balance reputation with branch suitability, affordability and realistic entry routes.**

WHAT YOU TOLD US YOU WANT, AND HOW WE USED IT

You told us	So in this report, we
Building apps and websites	Put Software Engineer first and suggest a small app experiment.
Electronics and robotics	Include Robotics Engineer and compare electronics with computing routes.
AI and data	Compare Data Scientist with Machine Learning Engineer through practical tasks.
Reputation before exact branch	Test whether related branches remain appealing beyond the college name.
Anywhere in my state	Include Maharashtra options beyond Pune; flag housing and total costs.
Good money and security	Keep broad software options alongside specialist careers with narrower entry routes.

(Missing: your family's yearly budget and your subject-wise marks. Add them on uApplai and your free update uses them.)

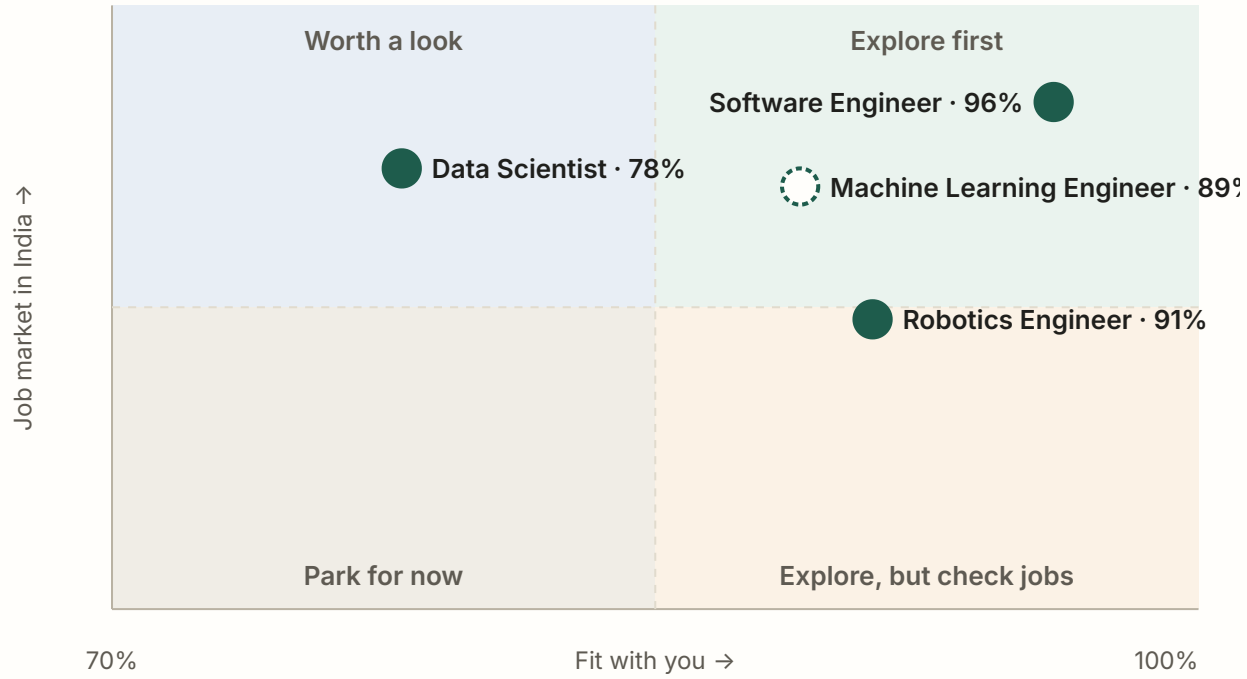
WHAT THIS MEANS

Your interests and reported strengths support engineering exploration, not a settled specialisation. Broad computing keeps software, data and ML options open; electronics deserves consideration if hardware work appeals. Subject marks and your response to sustained debugging would make the advice more confident.

3 · YOUR CAREER SHORTLIST

Four careers, placed by fit and by job market

Further right means a closer match to you. Higher means more jobs and better pay data in India today.



Filled dots: careers you saved. Dashed dot: a close match you haven't saved yet. How we place careers on the map: page 26.

WHAT THE MAP TELLS YOU

Software Engineer is your broadest starting point. Robotics Engineer matches your building interests, but its job and pay evidence is less specific. Data Scientist and Machine Learning Engineer remain worth testing; many researched openings seek experience. These are judgements, not admission or salary predictions.

3 · YOUR CAREER SHORTLIST

Are you ready for the subjects these careers need?

Each bar shows **how important a school subject is to the career**, scored from 0 to 10. The higher the score, the more that career depends on it.

IMPORTANCE TO THE CAREER *9–10 Essential* *7–8 Very important* *5–6 Important* *3–4 Some use* *0–2 Little use*

Software Engineer

Mathematics 9/10 · Essential
Logic, algorithms and engineering entrance tests

Computer Science 8/10 · Very important
Programming foundations and understanding software

English 7/10 · Very important
Documentation, teamwork and explaining technical choices

Physics 5/10 · Important
Engineering entry and understanding hardware systems

Robotics Engineer

Mathematics 10/10 · Essential
Motion, geometry and control calculations

Physics 9/10 · Essential
Forces, circuits, sensors and movement

Computer Science 8/10 · Very important
Coding, algorithms and debugging

Chemistry 5/10 · Important
Engineering entrances, materials and batteries

Machine Learning Engineer

Mathematics 10/10 · Essential
Probability, optimisation and model foundations

Computer Science 9/10 · Essential
Programming, algorithms and software systems

English 7/10 · Very important
Documentation, research reading and teamwork

Physics 5/10 · Important
Modelling systems; useful for robotics

Data Scientist

Mathematics 10/10 · Essential
Probability, statistics and model foundations

Computer Science 9/10 · Essential
Coding, databases and working with data

English 7/10 · Very important
Explain findings and understand technical writing

Physics 5/10 · Important
Modelling, measurement and scientific reasoning

Scores are our judgement from course content and entrance tests.

WHERE YOU STAND TODAY

You take the relevant PCM and Computer Science subjects, but your latest school exam marks were not supplied. Academic readiness remains unverified; build-up labels identify practice priorities, not low performance.

WHAT TO WORK ON IN SCHOOL NOW

- Strengthen PCM using timed practice and error review
- Practise coding, debugging and explaining your solutions
- Build probability and statistics through small datasets

3 · YOUR CAREER SHORTLIST

Your four careers, side by side

The same essentials as on your uApplai career cards, in order of fit. Each has a full deep-dive on the pages that follow.

	Software Engineer	Robotics Engineer	Machine Learning Engineer	Data Scientist
FIT	96%	91%	89% Not saved	78%
WHY IT FITS	You chose Building apps and websites. Software engineers turn these ideas into working products.	You chose Electronics and robotics. Robotics combines circuits, movement and code.	AI and data interests you. You build software that learns patterns.	You chose AI and data. You could turn patterns into useful predictions.
YOUR PATH	PCM → JEE Main or MHT-CET → BE/B.Tech, four years.	PCM → JEE Main/MHT-CET → BE/B.Tech, four years.	PCM → JEE Main or MHT-CET → BE/B.Tech, four years.	PCM → JEE Main or MHT-CET → BE/B.Tech, four years.
THE WORK	Write code, test changes and review teammates' work.	Write code, connect sensors and test robots.	Train, test and run AI models inside products.	Clean data, test predictions and explain results.
INDUSTRY	Growing with cloud systems and AI-linked work.	Growing through manufacturing automation and AI.	Growing through AI products and cloud services.	Posting volumes show modest growth.
EARNINGS	₹5–6 L → ₹46–47 L	₹3 L to start	₹5–6 L → ₹13–14 L	₹11–13 L → INR 16 LPA
IMPACT OF AI	High	Medium	High	High
COST OF STUDY	Public COEP: ₹1,25,830/year; private VIT: ₹5,37,390/year.	Public COEP tuition: ₹1,25,830; private VIT institute-level fee: ₹5,37,390 yearly.	Public tuition: ₹1.26L; private institute-level fee: ₹5.37L yearly.	Public COEP: ₹1,25,830/year; private VIT: ₹5,37,390/year.
COMPETITION	High	High	High	High
BEST IF YOU	enjoy building software and patiently fixing it	enjoy coding, building and repeated testing	enjoy maths, coding and repeated testing	enjoy testing ideas against messy evidence

Earnings: starting pay → pay after 10+ years, per year, in rounded bands. Figures we couldn't confirm are left out and listed on page 26.

WHAT THIS MEANS FOR YOUR NEXT DECISION

Three careers share a computing foundation; robotics adds hardware and repeated physical testing. Prefer a reputable college only within branches you would actually study. Compare curricula, labs, total costs and branch-specific opportunities before accepting electronics instead of computing.

4 · CAREER DEEP-DIVE · 1 OF 4

Software Engineer

96% · Excellent fit

Build software that turns everyday problems into working solutions.

WHY THIS FITS YOU

Your interests, logical strengths and work style point toward software engineering.

YOUR INTERESTS

You chose *Building apps and websites*. Software engineers turn these ideas into working products.

Based on: your activity interests

YOUR STRENGTHS

You report strength in *Numbers and logic*. These help you break problems into steps.

Based on: your reported strengths

YOUR WORK STYLE

People or solo: *A bit of both*. Coding mixes independent focus with teamwork.

Based on: your work style answers

AT A GLANCE

YOUR PATH	**PCM → JEE Main or MHT-CET → BE/B.Tech, four years.** Competition: high for sought-after colleges.
THE WORK	**Write code, test changes and review teammates' work.** Hard part: changing code without breaking features.
INDUSTRY & EMPLOYERS	**Growing with cloud systems and AI-linked work.** Employers include Microsoft, HPE and Salesforce.
EARNINGS	**₹5–6 L to start, ₹46.1 L after 10 years.** Indicative.
IMPACT OF AI	**High.** AI reshapes coding; people still check quality, design systems and make decisions.
COST OF STUDY	**Public COEP: ₹1,25,830/year; private VIT: ₹5,37,390/year.** 2026–27 tuition; VIT institute-level only. Budget unknown.

OPPORTUNITIES ABROAD

Your coding skills can transfer internationally. Projects, experience and clear communication help; overseas hiring still depends on employer demand, visas and local requirements.

MYTH VS REALITY

Myth: Software engineering is mostly writing new code and earning a high salary. **Reality:** Much work involves reading old code, testing and fixing bugs; pay and job security vary widely.

SOFTWARE ENGINEER · DEEP-DIVE 2 OF 3 · THE WORK AND THE INDUSTRY

What a Software Engineer really does

The work

A TYPICAL DAY

09:30	Discuss user needs and plan tasks with teammates.
11:00	Write code for a small product feature.
14:00	Review code and test possible failures.
16:30	Investigate bugs and document changes.

Where: Mostly offices or remote teams; Pune, Bengaluru and Hyderabad are researched hiring hubs.

The hard part: Understanding existing code and fixing bugs without breaking something that already works.

Suits you if you enjoy logical puzzles, building useful tools and learning continuously.

Not for you if you dislike debugging, screen-based work or learning changing tools.

Industry & employers

Growing

WHAT'S DRIVING IT

- AI-linked roles are expected to reshape the IT talent mix. icicidirect.com
- Job postings seek cloud platforms and distributed systems skills. rezifi.com
- Employers need scalable software, automated testing and system architecture. careers.jio.com

Job hubs: Bengaluru, Hyderabad, Pune

Who hires: Microsoft (private), HPE (private), Salesforce (private), Amazon (private) techreferrals.in

For freshers: You usually enter through campus recruitment, internships or direct applications, showing projects and passing coding interviews; entry-level opportunities are competitive.

Hiring freshers now: ClickHouse: Full Stack Software Engineer (freshers); HPE: Software Systems Engineer (fresh graduates); Salesforce: Software Engineering AMTS (2026 graduates); ACKO: SDE 1 (at least 1 year of experience) techreferrals.in · Nov 2026

Impact of AI

High

WHAT AI WILL CHANGE

AI assists routine coding, testing and documentation; you must check its output carefully.

WHAT STAYS HUMAN

Understanding users, designing systems, judging trade-offs and taking responsibility for quality.

NEW ROLES

AI-assisted development, AI integration and software evaluation.

Rewards and challenges at work

WHAT PEOPLE ENJOY

- Seeing something you built solve a real problem
- Finding an elegant solution to a tricky bug
- Learning new tools with a project team

WHAT PEOPLE FIND HARD

- Spending hours tracking one small bug
- Changing unfamiliar code without causing new failures
- Balancing deadlines with testing and continued learning

What surprises people: You may spend more time reading, discussing and fixing existing code than writing brand-new features.

SOFTWARE ENGINEER · DEEP-DIVE 3 OF 3 · PATH, COST AND PAY

How to become a Software Engineer

Your path

Competition: high

1 **Class 11–12**
Strengthen PCM and Computer Science; prepare for JEE Main and MHT-CET.

2 **2027 admission**
Compare Maharashtra colleges, computing branches, total costs and admission eligibility.

3 **Four-year BE/B.Tech**
Learn computing foundations; build projects, join teams and seek internships.

4 **First software job**
Apply through campus and direct routes; demonstrate projects and coding skills.

BE/B.Tech in computing is a common route. Compare COEP and VIT on curriculum, costs and placements, not reputation alone. Plan B: IT or a related branch with substantial coding; check software-recruiter branch eligibility before accepting Electronics.

Colleges: 10 on your list, incl. Vishwakarma Institute of Technology (near home) and COEP Technological University (near home). See page 20.

Earnings in India

Starting	10+ years
₹5–6 L	**₹46–47 L**

*Per year, indicative · **payscale.com** · **6figr.com** · **Nov 2026***

Cost of study

COEP, OPEN-category first-year tuition (2026–27)	₹1,25,830 / year **coeptech.ac.in**
VIT Pune, institute-level admission tuition	₹5,37,390 / year; not a CAP fee quote **vit.edu**
VIT Pune, hostel including mess (2026–27)	Minimum ₹1,35,000 boys / ₹1,30,000 **vit.edu**

Your budget is unknown. Confirm 2027–28 fees, category concessions and commuting costs before comparing total degree costs.

Career ladder & specialisations (illustrative)

1 **Junior Software Developer**
Typically 0–2 years

2 **Software Developer**
Typically 2–5 years

3 **Senior Software Developer**
Typically 5–9 years

4 **Tech Lead or Engineering Manager**
Typically 9+ years

Specialisations: Web, mobile, back-end, full-stack and embedded software; later switches include cloud, testing automation or AI integration.

TRY IT: YOUR PROJECT 1

Build a simple homework tracker in a free browser coding tool, then improve it after user feedback.

*Step-by-step guide: page **22**.*

4 · CAREER DEEP-DIVE · 2 OF 4

Robotics Engineer

91% · Excellent fit

Build robots that sense, move and solve real problems.

WHY THIS FITS YOU

Your interests, practical strengths and work style point towards robotics.

YOUR INTERESTS

You chose *Electronics and robotics*. Robotics combines circuits, movement and code.

Based on: your interests answers

YOUR STRENGTHS

You report *Fixing and building*. Robots need practical testing and repairs.

Based on: your strengths answers

YOUR WORK STYLE

You want *Something different every day*. Tasks vary between coding, building and testing.

Based on: your work-style answers

AT A GLANCE

YOUR PATH	**PCM → JEE Main/MHT-CET → BE/B.Tech, four years.** Related engineering branches also work.
THE WORK	**Write code, connect sensors and test robots.** Hard part: reliable performance outside the lab.
INDUSTRY & EMPLOYERS	**Growing through manufacturing automation and AI.** Employers include Universal Robots, Botsync and Siemens Energy.
EARNINGS	**₹3 L to start.** Indicative.
IMPACT OF AI	**Medium.** AI assists coding; physical testing and safe system integration still need engineers.
COST OF STUDY	**Public COEP tuition: ₹1,25,830; private VIT institute-level fee: ₹5,37,390 yearly.** 2026–27 figures; budget unknown.

OPPORTUNITIES ABROAD

Your coding, controls and robot-testing skills can transfer internationally. Strong projects and experience help; overseas jobs still depend on employer requirements and visas.

MYTH VS REALITY

Myth: Robotics engineers spend every day inventing impressive new robots. **Reality:** Much of the work is testing, fixing faults and making existing machines dependable.

ROBOTICS ENGINEER · DEEP-DIVE 2 OF 3 · THE WORK AND THE INDUSTRY

What a Robotics Engineer really does

The work

A TYPICAL DAY

09:30	Review test failures and plan adjustments.
11:00	Tune sensor readings and control software.
14:00	Test robot movement and safety with teammates.
16:30	Record results and investigate unreliable behaviour.

Where: Offices, labs, factories and warehouses; some roles involve customer-site testing and equipment support.

The hard part: Making code, sensors and moving parts work safely together, repeatedly, outside controlled lab conditions.

Suits you if you enjoy coding, building and patiently testing why machines fail

Not for you if you want only desk work or dislike repeated debugging

Industry & employers

Growing

WHAT'S DRIVING IT

- Manufacturers are deploying automation and robotics. jobs.siemens.com
- AI enables robotic vision, handling and inspection. in.talent.com
- Process industries use robots for industrial tasks. careers.chevron.com

Job hubs: Bengaluru, Delhi/NCR, Hyderabad, Pune

Who hires: Universal Robots (private), Siemens Energy India Limited (private), Botsync (private), IROV Technologies Private Limited (private) in.talent.com

For freshers: Start through internships, graduate trainee, robot support or embedded-software roles; check whether the work involves engineering rather than teaching or sales.

Hiring freshers now: Vizlogic Digital Solutions: Robot Support (0–1 years); Hyluminix Infosystems Private Limited: AI & Robotics Teacher (fresher); HERITAGE FOODS LIMITED: Diploma Engineer Trainee—Mechatronics (0–1 years); Intralog Automation: Graduate Engineering Trainee—Mechatronics (internship) naukri.com · Nov 2026

Impact of AI

Medium

WHAT AI WILL CHANGE

AI may generate routine code and assist robot vision, simulation and fault diagnosis.

WHAT STAYS HUMAN

Physical testing, safety decisions and making hardware and software work together.

NEW ROLES

AI robotics integrator, robotics system architect.

Rewards and challenges at work

WHAT PEOPLE ENJOY

- Seeing your code move a real machine
- Combining software, electronics and mechanical ideas
- Solving practical problems with a team

WHAT PEOPLE FIND HARD

- Failures that appear only on real hardware
- Repeated testing before a robot becomes reliable
- Balancing movement, accuracy and safety

What surprises people: A robot working once is a demo; making it work reliably is the engineering.

ROBOTICS ENGINEER · DEEP-DIVE 3 OF 3 · PATH, COST AND PAY

How to become a Robotics Engineer

Your path

Competition: high

1 **Class 11–12**
Build PCM foundations; practise coding alongside board and entrance preparation.

2 **2027 admissions**
Take JEE Main/MHT-CET; compare Maharashtra colleges, branches and admission rules.

3 **BE/B.Tech, four years**
Study computing, electronics or mechatronics; build robots and seek internships.

4 **First job**
Apply for robotics internships, trainee, embedded-software and automation roles.

You do not need a degree titled Robotics. Computer Engineering at COEP or VIT can support robotics software; Walchand Electronics can support hardware and control. Check labs, projects and internships before choosing by reputation alone. Plan B: software development or embedded systems.

Colleges: 10 on your list, incl. Vishwakarma Institute of Technology (near home) and COEP Technological University (near home). See page 20.

Earnings in India

Starting
₹3 L

*Per year, indicative · **roboticsengineering.in · Nov 2026***

Cost of study

COEP Computer Engineering, OPEN tuition, 2026–27	₹1,25,830 per year; other charges extra **coeptech.ac.in**
VIT Pune, institute-level admission fee, 2026–27	₹5,37,390 for the academic year **vit.edu**
VIT Pune hostel and mess, 2026–27	Minimum ₹1,35,000 boys / ₹1,30,000 **vit.edu**

Your budget is unknown. Confirm 2027–28 fees, admission quota, concessions and commuting costs before comparing total costs.

Career ladder & specialisations (illustrative)

1 **Junior robotics engineer or graduate trainee**
Typically 0–2 years

2 **Robotics engineer**
Typically 2–5 years

3 **Senior robotics engineer**
Typically 5–10 years

4 **Robotics lead or principal engineer**
Typically 10+ years

Specialisations: Robot vision, navigation, arm control, embedded systems and industrial automation. Common switches include software development and automation engineering.

TRY IT: YOUR PROJECT 2

Use a free browser simulator to program obstacle avoidance and investigate why your virtual robot fails.

*Step-by-step guide: page **22**.*

4 · CAREER DEEP-DIVE · 3 OF 4

Machine Learning Engineer

89% · Excellent fit | Not saved

Turn AI models into useful software people can rely on.

A close match you haven't saved, close to Data Scientist. It fits you better than one of your saved careers, so it gets a full deep-dive.

WHY THIS FITS YOU

Your interests, reported strengths and work style point here.

YOUR INTERESTS	***AI and data*** **interests you.** You build software that learns patterns. Based on: your interest choices
YOUR STRENGTHS	***Numbers and logic*** **are your reported strengths.** Models need mathematical thinking. Based on: your reported strengths
YOUR WORK STYLE	***A bit of both*****: teamwork and solo work.** You code independently and review together. Based on: your work style answer

AT A GLANCE

YOUR PATH	**PCM → JEE Main or MHT-CET → BE/B.Tech, four years.** Competition: high.
THE WORK	**Train, test and run AI models inside products.** Hard part: unreliable predictions.
INDUSTRY & EMPLOYERS	**Growing through AI products and cloud services.** Employers include Amazon, Adobe, TCS and Infosys.
EARNINGS	**₹5–6 L to start, ₹13.8 L after 5 years.** Indicative.
IMPACT OF AI	**High.** AI speeds coding; people still judge reliability, safety and costs.
COST OF STUDY	**Public tuition: ₹1.26L; private institute-level fee: ₹5.37L yearly.** 2026–27 examples; living costs extra.

OPPORTUNITIES ABROAD

Python, maths and software skills travel well. International roles depend on experience, hiring conditions and visas; research-heavy jobs may favour postgraduate study.

MYTH VS REALITY

Myth: An AI-labelled degree is enough to land a high-paying ML job. **Reality:** Employers need working software, sound maths and reliable models; much of the job involves fixing data and testing failures.

MACHINE LEARNING ENGINEER · DEEP-DIVE 2 OF 3 · THE WORK AND THE INDUSTRY

What a Machine Learning Engineer really does

The work

A TYPICAL DAY

- **09:30** Check model errors and service performance.
- **11:00** Improve training data and model evaluation.
- **14:00** Connect a model to an application.
- **16:30** Test reliability, response speed and computing costs.

Where: Mostly offices and software teams; robotics applications can also involve labs and hardware testing.

The hard part: Making unreliable models work safely and quickly without letting computing costs rise too far.

Suits you if you enjoy maths, coding and improving systems through repeated tests

Not for you if you want every problem to have one predictable answer

Industry & employers

Growing

WHAT'S DRIVING IT

- Product companies hire engineers to put machine learning into products. rolegps.com
- IT-services teams hire for model operations and supporting platforms. rolegps.com
- Recent listings seek language models, deep learning and cloud skills. joblookout.org

Job hubs: Bengaluru, Hyderabad, Delhi NCR, Pune

Who hires: HP (private), Amazon (private), Adobe (private), TCS (private), Infosys (private) apply.hp.com

For freshers: Target internships and associate roles with working projects; software or data engineering can be a stepping stone when direct ML openings are scarce.

Hiring freshers now: Infocepts: Machine Learning (Fresher); Synthires: AI & Machine Learning Research (Fresher); Warewe Consultancy Private Limited: Junior Machine Learning AI Specialist (1–3 years; excluded because above 0–2 years); Wangoes Technologies: AI/ML Developer (freshers) unojobs.com · Nov 2026

Impact of AI

High

WHAT AI WILL CHANGE

AI tools will increasingly draft code, suggest experiments and automate routine model setup.

WHAT STAYS HUMAN

Choosing useful problems, checking failures, protecting data and balancing costs.

NEW ROLES

AI evaluation engineer, model operations engineer, AI safety engineer.

Rewards and challenges at work

WHAT PEOPLE ENJOY

- Turning a model into a useful app
- Finding why a prediction went wrong
- Improving speed, accuracy and reliability

WHAT PEOPLE FIND HARD

- Cleaning messy or incomplete training data
- Debugging failures that appear only after launch
- Keeping computing costs under control

What surprises people: Getting data ready and keeping models running can take more effort than inventing clever algorithms.

MACHINE LEARNING ENGINEER · DEEP-DIVE 3 OF 3 · PATH, COST AND PAY

How to become a Machine Learning Engineer

Your path

Competition: high

1. **Class 11–12**
   Strengthen PCM and Computer Science; practise Python alongside entrance preparation.
2. **Engineering admission**
   Use JEE Main or MHT-CET routes; check 2027 counselling rules.
3. **Four-year BE/B.Tech**
   Study computing, maths and ML; build projects and seek internships.
4. **First job**
   Apply for associate ML, software or data engineering roles.

A computing degree, strong software foundations and practical projects form a direct route; a master's is not always necessary. For your reputation-first choice, compare Computer Engineering and IT carefully. Electronics can work with extra coding and maths. Plan B: software or data engineering.

Colleges: 10 on your list, incl. Vishwakarma Institute of Technology (near home) and COEP Technological University (near home). See page 20.

Earnings in India

Starting	5 years
₹5–6 L	₹13–14 L

*Per year, indicative · **payscale.com** · **ambitionbox.com** · **Nov 2026***

Five-year figure covers 3–6 years; entry estimate uses 39 reported salaries.

Cost of study

COEP Computer Engineering, OPEN tuition (2026–27)	₹1,25,830/year; other charges extra **coeptech.ac.in**
VIT Pune, institute-level admission fee (2026–27)	₹5,37,390 for the academic year **vit.edu**
VIT Pune hostel including mess (2026–27)	Minimum ₹1,35,000 boys / ₹1,30,000 **vit.edu**

Your budget is unknown. Confirm 2027–28 fees, category concessions and full living costs; compare commuting with hostel expenses.

Career ladder & specialisations (illustrative)

1. **Associate ML Engineer**
   Typically 0–2 years
2. **ML Engineer**
   Typically 2–5 years
3. **Senior ML Engineer**
   Typically 5–9 years
4. **Staff ML Engineer or AI team lead**
   Typically 9+ years

Specialisations: Computer vision, language models, recommendations, robotics perception and model operations; possible switches include software engineering, data engineering and data science.

TRY IT: YOUR PROJECT 3

Train a classifier with a free browser tool, then test familiar objects under different lighting.

*Step-by-step guide: page **22**.*

4 · CAREER DEEP-DIVE · 4 OF 4

Data Scientist

78% · Good fit

Use data to explain patterns and test predictions that solve problems.

WHY THIS FITS YOU

Your interests, reported strengths and work style point here.

YOUR INTERESTS

You chose *AI and data*. You could turn patterns into useful predictions.

Based on: your interest choices

YOUR STRENGTHS

You report *Numbers and logic*. Statistics needs this kind of thinking.

Based on: your reported strengths

YOUR WORK STYLE

You prefer *A bit of both*. You analyse independently and explain findings to teams.

Based on: your independent and teamwork preference

AT A GLANCE

YOUR PATH	**PCM → JEE Main or MHT-CET → BE/B.Tech, four years.** Build statistics and coding skills.
THE WORK	**Clean data, test predictions and explain results.** Hard part: unreliable data can undermine conclusions.
INDUSTRY & EMPLOYERS	**Posting volumes show modest growth.** Employers include Cognizant, Amazon, EY and Pfizer.
EARNINGS	**₹11–13 L to start, ₹16 L after 10 years.** Indicative.
IMPACT OF AI	**High.** AI speeds coding and analysis; checking evidence and choosing questions still need people.
COST OF STUDY	**Public COEP: ₹1,25,830/year; private VIT: ₹5,37,390/year.** 2026–27 tuition; VIT institute-level admission only.

OPPORTUNITIES ABROAD

Python, SQL and statistics transfer across countries. Experience and strong projects help; overseas roles still depend on local hiring, visas and sometimes postgraduate study.

MYTH VS REALITY

Myth: Data scientists spend all day building exciting AI models. **Reality:** Much of the work is cleaning data, checking assumptions and explaining results; some first roles focus on reporting.

DATA SCIENTIST · DEEP-DIVE 2 OF 3 · THE WORK AND THE INDUSTRY

What a Data Scientist really does

The work

A TYPICAL DAY

09:30	Clarify a business question with the team.
11:00	Clean data and investigate missing values.
14:00	Compare models against a simple baseline.
16:30	Explain results, uncertainty and limitations.

Where: Mostly office-based teams in technology, consulting, finance and healthcare; Pune is one hiring hub.

The hard part: Knowing when data cannot answer a question, and explaining that honestly.

Suits you if you enjoy numbers, coding and testing whether your first answer is wrong.

Not for you if you want quick answers without cleaning data or checking assumptions.

Industry & employers

Growing

WHAT'S DRIVING IT

- Weekly postings increased modestly across the tracked period. getuhired.co
- Demand includes machine learning, deep learning and generative AI skills. rezifi.com
- Python and SQL remain among the most requested skills. getuhired.co

Job hubs: Bengaluru, Hyderabad, Pune, Gurugram

Who hires: Cognizant (private), Amazon (private), EY (private), Pfizer (private) careers.cognizant.com

For freshers: Build projects and internships during your degree; target analyst or associate roles too, because direct fresher data scientist openings are limited.

Hiring freshers now: Simpli Intern: Associate Data Scientist (no experience required); Techvolt Software: Data Scientist with Gen AI (0–2 years) internshala.com · Nov 2026

Impact of AI

High

WHAT AI WILL CHANGE

AI automates more coding, data preparation and first-pass analysis.

WHAT STAYS HUMAN

Choosing useful questions, spotting misleading results and taking responsibility for decisions.

NEW ROLES

AI evaluation specialist; data quality specialist.

Rewards and challenges at work

WHAT PEOPLE ENJOY

- Finding patterns that answer a useful question
- Testing ideas instead of relying on guesses
- Seeing evidence improve a real decision

WHAT PEOPLE FIND HARD

- Cleaning incomplete or inconsistent data
- Explaining why a promising result is unreliable
- Handling models that fail outside testing

What surprises people: A useful outcome can be proving that the available data cannot support a decision.

DATA SCIENTIST · DEEP-DIVE 3 OF 3 · PATH, COST AND PAY

How to become a Data Scientist

Your path

Competition: high

1 **Class 11–12**
Build Mathematics and Computer Science foundations; practise Python.

2 **Engineering admissions**
Take JEE Main and MHT-CET; check Maharashtra counselling eligibility.

3 **BE/B.Tech, four years**
Choose computing; build statistics, projects and internship experience.

4 **First job**
Apply for analyst, associate data scientist or junior data roles.

A computing degree plus statistics, projects and internships is a practical route. Compare COEP and VIT curricula, not just reputation. Related branches need extra computing preparation. Plan B: start in data analysis or software, then move toward data science.

Colleges: 10 on your list, incl. Vishwakarma Institute of Technology (near home) and COEP Technological University (near home). See page 20.

Earnings in India

Starting	5 years	10+ years
₹11–13 L	**₹15–17 L**	**INR 16 LPA**
Early-career salary band, not a fresher starting-pay estimate		2021 page; 10 years' experience

*Per year, indicative · **ambitionbox.com** · **naukri.com** · **Nov 2026***

Start: 1–3 years; five: 3–6 years; ten-year figure is outdated, published in 2021.

Cost of study

COEP, OPEN-category first-year tuition, 2026–27	₹1,25,830/year **coeptech.ac.in**
VIT Pune, institute-level admission tuition	₹5,37,390/year; not a general CAP fee **vit.edu**
VIT Pune, hostel including mess, 2026–27	Minimum ₹1,35,000 boys / ₹1,30,000 **vit.edu**

Your budget is unknown; 2027–28 fees may change. Compare total costs, including travel, accommodation and equipment.

Career ladder & specialisations (illustrative)

1 **Analyst or Associate Data Scientist**
Approximately 0–2

2 **Data Scientist**
Approximately 2–5

3 **Senior Data Scientist**
Approximately 5–9

4 **Principal Data Scientist or Head of Data Science**
Approximately 9+

Specialisations: Forecasting, product experiments, fraud detection, healthcare analytics and language AI. Common switches include data analyst, machine learning engineer and data engineer.

TRY IT THIS MONTH

Use a free spreadsheet to analyse your recent study sessions. Plot time against practice accuracy, then explain why a pattern might not prove causation.

6 · WHERE YOU COULD STUDY

Colleges that lead to your careers

Ten colleges, six near home. Each row shows the course, which of your careers it leads to, and how you get in.

College	Course · how you get in	Software Engineer	Robotics Engineer	Machine Learning Engineer	Data Scientist	Getting in
Vishwakarma Institute of Technology Pune · near home · Private autonomous	B.Tech Computer Engineering, 4 yrs MHT-CET / JEE Main · 2025 closing rank **4,095** (State merit) **fe2025.mahacet.org**	●	○	●	●	Very competitive Last year's CET close 4,095; your rank not provided.
COEP Technological University Pune · near home · Public university	B.Tech Computer Engineering, 4 yrs MHT-CET / JEE Main · 2025 closing rank **913** (State merit) **fe2025.mahacet.org** The data has no Computer Engineering programme here; this is Computer Science and Engineering, the closest one. Use it as a rough guide.	●	○	●	●	Very competitive Last year's CET CSE close 913; your rank not provided.
K. K. Wagh Institute of Engineering Education and Research Nashik · Private	B.Tech Information Technology, 4 yrs MHT-CET / JEE Main · 2025 closing rank **19,922** (State merit) **fe2025.mahacet.org**	●	○	○	○	Competitive Last year's CET close 19,922; your rank not provided.
Veermata Jijabai Technological Institute Mumbai · Government-aided autonomous	B.Tech Computer Engineering, 4 yrs MHT-CET through CAP · 2025 closing rank **119** (State merit) **fe2025.mahacet.org**	●	○	●	●	Very competitive Last year's CET close 119; your rank not provided.
Walchand College of Engineering Sangli · Government-aided autonomous	B.Tech Electronics Engineering, 4 yrs MHT-CET; JEE Main for applicable seats · 2025 closing rank **4,498** (State merit) **fe2025.mahacet.org**	○	○	○	○	Very competitive Last year's CET close 4,498; your rank not provided.
Prof. Ram Meghe Institute of Technology and Research Badnera · Private autonomous	BE Computer Science and Engineering, 4 yrs MHT-CET / JEE Main · 2025 closing rank **31,723** (State merit) **fe2025.mahacet.org**	●	○	●	●	Competitive Last year's CET close 31,723; your rank not provided.
PICT Pune Pune · near home · Autonomous, SPPU-affiliated	Computer Engineering, 4 yrs MHT-CET / JEE Main · 2025 closing rank **1,151** (State merit) **fe2025.mahacet.org**	●	○	●	●	Very competitive Last year's CET close 1,151; your rank not provided.
SIT Pune Pune · near home · Private	B.Tech Computer Science and Engineering, 4 yrs SITEEE / JEE Main / State CET	●	○	●	●	Competitive Our estimate: Multiple entrance routes; your marks and entrance scores not provided.
IIIT Pune Pune · near home · Institute of National Importance, PPP	B.Tech Computer Science and Engineering, 4 yrs JEE Main through JoSAA / CSAB · 2025 closing rank **21,029** (All-India) **josaa.admissions.nic.in**	●	○	●	●	Very competitive Last year's JEE Main close 21,029; your rank not provided.
MIT Academy of Engineering Pune · near home · Institution type unconfirmed in	B.Tech Computer Engineering Admission route unconfirmed in supplied research · 2025 closing rank **14,555** (State merit) **fe2025.mahacet.org**	●	○	●	●	Competitive Programme selectivity unresearched; your marks and entrance scores not provided.

● Direct route ○ Via a related role or later study – Not a route

WHAT THIS TELLS YOU

Prioritise computing fit; confirm ranks, fees and budget next.

How we chose these: a main route and a Plan B for each career, near-home and realistic options within budget, and only colleges whose course we could confirm. "Getting in" is our judgement from recent admissions, not a prediction. Closing ranks are last year's official results (OPEN category, gender-neutral seats): a guide, not a promise.

THE DETAIL IS AT THE BACK

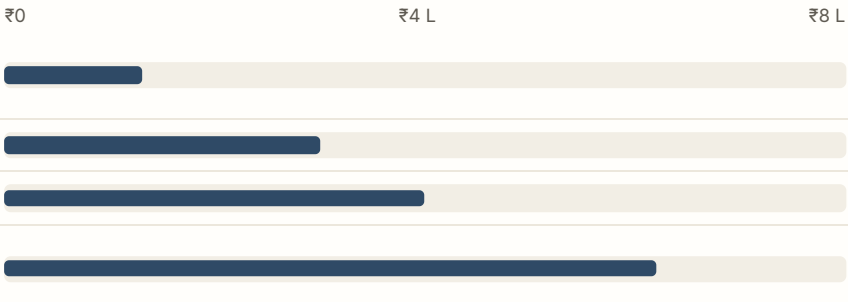
Exam dates p. 28 · Fact sheets p. 29 · Rank targets p. 30

6 · WHERE YOU COULD STUDY

What each college costs

One year at today's rates.

COST OF ONE YEAR



Fees from college sites; hostel and food are our estimate. Colleges whose fees we couldn't confirm are left out.

College	Type	Tuition / year	Whole course
Vishwakarma Institute of Technology · B.Tech Computer Engineering, 4 yrs	Private autonomous	₹5.37 L/yr (2026–27, institute-level only) **vit.edu**	≈ ₹25 L at home
COEP Technological University · B.Tech Computer Engineering, 4 yrs	Public university	₹1.26 L/yr (2026–27, Open) **coeptech.ac.in**	≈ ₹5 L at home
PICT Pune · Computer Engineering, 4 yrs	Autonomous, SPPU-affiliated	₹1,06,956 tuition fee for F.Y. B.Tech., A.Y. 2026-27; subject to revision. The notes do not specify Computer Engineering or the four-year total. **admissions.pict.edu**	
SIT Pune · B.Tech Computer Science and Engineering, 4 yrs	Private	₹4 L/yr (2026–27) **sitpune.edu.in**	≈ ₹16.2 L at home
IIIT Pune · B.Tech Computer Science and Engineering, 4 yrs	Institute of National Importance, PPP	₹2.64 L/yr (2026–30 batch) **iiitp.ac.in**	≈ ₹11.8 L at home

Totals are today's rates; check them again for your admission year.

SCHOLARSHIPS TO AIM FOR

- **PM-USP (Central Sector Scholarship) (₹12,000 a year in years 1–3; ₹20,000 in years 4–5 of a professional course (2025-26 rates)):** For eligible regular-degree students, based on Class 12 marks and family income. Apply through NSP; your eligibility is unconfirmed. Amounts are 2025–26 rates. Rules and income limits change each year; check the portal before you apply.
  scholarships.gov.in
- **PM-Vidyalaxmi education loan:** Loan, not scholarship: merit admission to a listed institution is required. No collateral or guarantor; eligible lower-income families receive interest support. Check institution eligibility before applying. Rules and income limits change each year; check the portal before you apply.
  pmvidyalaxmi.co.in

Confirm eligibility for your admission year; don't count on an award.

FOR PARENTS

Your budget is not recorded; Pune commuting may avoid accommodation costs. Confirm travel limits, hostel availability and complete 2027–28 fees before paying a deposit.

7 · YOUR PLAN

Your next 4 months, step by step

Three small projects show which work you enjoy. Each takes about 2 hours and needs nothing you don't already have at home.

Project 1 · Homework tracker

Nov 2026

Tests Software Engineer · about 2 hours

1. Open a free coding tool on your home device.
2. Add task names, due dates and completion boxes.
3. Test adding, completing and removing sample tasks.
4. Ask someone at home to try your tracker.
5. Fix one bug or confusing feature they noticed.

Notice: Do you enjoy debugging and improving something another person uses?

Project 2 · Robot obstacle test

Dec 2026

Tests Robotics Engineer · about 2 hours

1. Open a free robotics simulator on your home device.
2. Choose a robot with a distance sensor.
3. Program it to stop or turn near obstacles.
4. Move obstacles and repeat the same test.
5. Record failures and adjust one rule at a time.

Notice: Do sensor behaviour and repeated troubleshooting make you curious?

Project 3 · Object classifier

Jan 2027

Tests Machine Learning Engineer · about 2 hours

1. Open a free classifier tool on your home device.
2. Choose two household objects and collect example images.
3. Train the model using those labelled examples.
4. Test new images with different lighting and backgrounds.
5. Record mistakes and add examples targeting one weakness.

Notice: Do you enjoy investigating mistakes rather than trusting predictions immediately?

Step 4 · Compare and decide

Feb 2027

ASK YOURSELF

- Which project made you want to keep improving?
- Did you prefer coding, physical systems or model testing?
- Which frustrating task still felt worth solving?

THEN

- Choose one direction for a deeper follow-up project.
- Compare relevant curricula at COEP and VIT.
- Update your shortlist using marks, budget and eligibility.

WHAT YOUR RESULTS WOULD MEAN

You enjoyed the homework tracker most	Explore Software Engineer first; compare Computer Engineering, CSE and IT curricula.
You enjoyed the robot test most	Explore Robotics Engineer further; compare electronics, embedded systems and computing coursework.
You enjoyed the classifier most	Explore Machine Learning Engineer; strengthen mathematics, statistics and coding before narrowing your degree.
You enjoyed several projects, or none	Keep broad computing if several appeal; if none, test other engineering tasks.

7 · YOUR PLAN

Your next 3 months, shared between you and your parents

Small steps, each with a month. Tick them off on uApplai as you go.

You

- [ ] Build the homework tracker; note what feels enjoyable and frustrating. · Nov 2026
- [ ] Run the robot obstacle test; record how you troubleshoot failures. · Dec 2026
- [ ] Build the object classifier; record mistakes and what improves its results. · Jan 2027

Parents

- [ ] Set an affordable four-year ceiling, including equipment, travel and a contingency. · Nov 2026
- [ ] Arrange college visits and ask about seat-specific fees, laboratories and commuting. · Dec 2026
- [ ] Find a software or robotics professional willing to discuss everyday work with your child. · Jan 2027

Together

- [ ] Confirm JEE Main application details and submit before 22 November. · Nov 2026
- [ ] Use VIT's 2025 rank 4,095 as guidance; retain Maharashtra CAP rounds as backup. · Dec 2026
- [ ] Check domicile documents, admission category, hostel willingness and acceptable compulsory branch subjects. · Jan 2027

YOUR 12-MONTH ROADMAP

Nov 2026	Build the homework tracker and record enjoyment of coding and debugging.
Nov 2026	**Decision: confirm the JEE Main application plan; register before 22 November.**
Dec 2026	Run the robot obstacle test; explore electronics alongside software.
Jan 2027	Build the object classifier; take JEE Main on your assigned January date.
Feb 2027	Compare all three projects; identify a provisional direction, not a final career.
Mar–May 2027	Take MHT-CET when officially scheduled; this window remains an estimate.
Jun–Oct 2027	Follow announced counselling dates; compare actual offers, branch curricula and confirmed total costs.
Nov 2027	Refresh this report using admission outcomes, project experience and current interests.

ASK THE PEOPLE AROUND YOU

"I'm exploring software engineering, AI and robotics through small projects while preparing for engineering entrance exams. I'd appreciate an introduction to someone working in software, data or robotics who could explain their everyday tasks, challenges and how they started. I'm still testing which work I genuinely enjoy."

Copy this from uApplai to share with family and friends.

MY CAREER COMPASS

1. Software Engineer
2. Robotics Engineer
3. Machine Learning Engineer

Next step: Homework tracker

uApplai

7 · YOUR PLAN

If something doesn't go to plan

Good plans have exits. None of these is a failure; each still leads somewhere you'd want to be.

If JEE Main doesn't go well

Continue MHT-CET preparation and Maharashtra counselling. Compare eligible colleges after results; one exam need not decide your entire engineering route.

If preferred computing seats are unavailable

Compare Information Technology or related computing courses elsewhere in Maharashtra. Consider Electronics Engineering only if its compulsory hardware subjects genuinely interest you.

If specialist work doesn't suit you

Keep Software Engineer as a broader option if coding suits you. If it doesn't, test electronics, embedded systems and automation before choosing a branch.

TEST YOUR ASSUMPTIONS

Five beliefs worth checking before they decide for you

Each has a cheap way to test it, and the result that would change our advice.

The belief	How to test it	What would change our advice
"A better college makes any branch worthwhile"	This month, compare computing and electronics syllabuses; ask current students about compulsory subjects, projects and access to software placements.	If core electronics subjects feel unappealing, prioritise a computing branch over reputation alone.
"Liking apps means I'll enjoy coding"	This month, build a simple homework tracker using free tools; fix bugs and ask someone to test it.	If debugging stays satisfying after the excitement fades, strengthen Software Engineer; otherwise test hardware or analysis before committing.
"AI careers are mainly exciting model building"	This month, clean a public dataset, build a simple prediction model and explain its errors without an AI-generated explanation.	Enjoying statistics supports Data Scientist; enjoying turning the model into working software supports Machine Learning Engineer.
"Robotics is mostly building impressive robots"	This month, use a free circuit or robot simulator; repeatedly troubleshoot a sensor-controlled system and record failures.	Enjoying repeated testing strengthens Robotics Engineer; preferring only code points toward software or robotics software work.
"A tech degree gives me job security"	This month, compare fresher postings across these careers; list required skills and distinguish graduate roles from experienced roles.	If specialist entry routes look narrow, keep broad computing fundamentals and internships central rather than relying on a degree title.

8 · FOR PARENTS

Support the decision. Let Aarav make it.

Your child is exploring computing and robotics; this year, protect exam options, test genuine interests and balance college reputation with affordability.

STRONGEST FIT	BEST-VALUE ROUTE	NEAR-HOME OPTIONS	FIRST EXAM
Computing, leading towards software engineering	**COEP while living at home, if admitted**	**COEP, VIT, PICT, IIIT Pune and SIT Pune**	**JEE Main: January 2027; registration closes 22 November**

Three decisions, in order

1. **Confirm the JEE Main application plan** · November 2026; complete registration before 22 November. Our view: Keep both routes open if preparation is manageable; your child's computing interests and Maharashtra-wide flexibility justify comparing more eligible colleges.
2. **Set the family spending ceiling** · November 2026. Our view: Budget is unknown: all 'stretch' labels below are provisional, not affordability judgements. Confirm seat-specific fees before committing.
3. **Compare projects, not final careers** · February 2027. Our view: Computing is the strongest starting fit. Compare your child's enjoyment of coding, debugging and hardware before accepting a related branch for reputation.

WHAT EACH ROUTE COSTS

Route	Example	Estimated total	Your budget
COEP, living at home	COEP Technological University	≈ ₹5 lakh, estimated four-year total	Budget not given
IIIT Pune, living at home	IIIT Pune	≈ ₹11.8 lakh, estimated four-year total	Budget not given
SIT Pune, living at home	SIT Pune	≈ ₹16.2 lakh, estimated four-year total	Budget not given

Today's rates. Full detail on page 21.

WHAT HELPS

- Ask what your child enjoyed and struggled with after each project.
- Compare laboratories, curriculum and branch-specific outcomes alongside reputation.
- Keep exam setbacks separate from your child's ability or worth.

WHAT GETS IN THE WAY

- Choosing an unwanted branch solely for the college name.
- Comparing salary headlines without checking experience levels or role differences.

QUESTIONS FOR THE DINNER TABLE

- Would your child enjoy debugging software repeatedly, not just creating something new?
- Which compulsory subjects would make a related branch unacceptable, even at a stronger college?
- What can we afford without depending on a high starting salary?

9 · HOW THIS REPORT WAS MADE

What's checked, and what's our judgement

CHECKED AGAINST SOURCES

Exam dates, college fees, eligibility, closing ranks, pay bands and scholarships. Each comes from the source below, checked on the date shown. They change every year, so check the official site before you apply or pay.

OUR JUDGEMENT

Your signals and fit scores, where careers sit on the map, AI impact and demand ratings, subject importance, how hard each college is to get into, and hostel and food estimates.

HOW YOUR FIT SCORE IS WORKED OUT

Interests	35%
Strengths (marks and aptitude)	30%
Work style	20%
Goals and preferences	15%

A fit score shows how closely a career matches what you told us. It isn't a prediction of admission, success or pay.

HOW WE PLACE CAREERS ON THE MAP

Fit (left to right) is your fit score. **Job market** (bottom to top) is our judgement from openings, demand and pay data in India.

Job counts from different websites aren't directly comparable, so we use them as a rough guide. Both axes are estimates, not chances of admission or success.

SOURCES

What	Source	Checked
Exam dates	shiksha.com, nta.ac.in	Nov 2026
College fees	vit.edu, coeptech.ac.in, admissions.pict.edu, sitpune.edu.in	Nov 2026
Graduate pay by college	collegedunia.com, coeptech.ac.in, vjti.ac.in, shiksha.com	Nov 2026
Pay bands	payscale.com, 6figr.com, roboticsengineering.in, ambitionbox.com	Nov 2026
Demand and employers	techreferrals.in, nextknock.in, icicidirect.com, rezifi.com	Nov 2026
Scholarships	scholarships.gov.in, pmvidyalaxmi.co.in	Nov 2026
Closing ranks	JoSAA 2025 opening and closing ranks, MHT-CET 2025 Maharashtra and Minority Seats CAP Cut Off	2025 results

WHAT WE COULDN'T CONFIRM, SO LEFT OUT

Your subject-wise marks · 5-year pay for Software Engineer · 5-year and 10-year pay for Robotics Engineer · 10-year pay for Machine Learning Engineer · Scholarship amounts · Graduate pay for some colleges. When you update the report, we look for these again.

WHAT COMES WITH THIS REPORT

Free updates: when your marks or answers change, update this report from uApplai and it is researched and written again.

Maya, your guide: ask her about anything in this report on uApplai.

ABOUT THIS REPORT

This report is for information and guidance only. It is written with the help of AI from your answers on uApplai and from publicly available information, such as official exam, college and government websites and job and pay data. We check facts against these sources where we can, but they can be incomplete or out of date. It is not professional, legal or financial advice, and it does not guarantee admission, results, scholarships, jobs or pay. Fees, dates, cut-offs and rules change every year: confirm them on the official website before you apply or pay, and talk your decisions through with your parents, teachers or a counsellor.

A1 · ADDITIONAL INFORMATION

Three ways in after Class 12

Reference pages for when you need the detail. First: each way in after Class 12, the degree it leads to, and what can follow.

ROUTE 1 · COMPUTING THROUGH MAHARASHTRA STATE SEATS · SOFTWARE ENGINEER, DATA SCIENTIST, MACHINE LEARNING ENGINEER, ROBOTICS ENGINEER

MHT-CET PCM
Maharashtra CET Cell CAP rounds
→
4-year BE/B.Tech in Computer Engineering, CSE or IT
Broad computing foundation
→
Software employment, followed by optional AI, data or robotics specialisation
Build projects before choosing a specialisation

ROUTE 2 · COMPUTING THROUGH JEE ALL INDIA SEATS · SOFTWARE ENGINEER, DATA SCIENTIST, MACHINE LEARNING ENGINEER

JEE Main Paper 1 (B.E./B.Tech)
Maharashtra CAP, eligible All India seats
→
4-year BE/B.Tech in computing
COEP and other eligible institutions
→
Software roles or applied AI/data work with relevant projects
Verify 2027 seat availability and candidature rules

ROUTE 3 · ELECTRONICS TOWARDS ROBOTICS AND EMBEDDED SYSTEMS · ROBOTICS ENGINEER, SOFTWARE ENGINEER, MACHINE LEARNING ENGINEER

MHT-CET PCM
Maharashtra CET Cell CAP rounds
→
4-year B.Tech in Electronics Engineering
Walchand College of Engineering
→
Embedded systems, automation or robotics
Choose only if electronics coursework genuinely appeals

CAREER BY CAREER: SUBJECTS, EXAMS AND DEGREE

Career	Class 11–12	Exams	Degree
Software Engineer	Class 12 Physics and Mathematics plus an eligible third subject; your PCM combination fits.	MHT-CET PCM, JEE Main Paper 1 (B.E./B.Tech)	BE/B.Tech in Computer Engineering, CSE or Information Technology
Robotics Engineer	Class 12 Physics, Chemistry and Mathematics; your Computer Science supports robotics coding.	MHT-CET PCM, JEE Main Paper 1 (B.E./B.Tech)	B.Tech in Electronics Engineering, or computing engineering with robotics projects
Data Scientist	Class 12 Physics and Mathematics plus an eligible third subject; retain strong mathematics foundations.	MHT-CET PCM, JEE Main Paper 1 (B.E./B.Tech)	BE/B.Tech in computing or Information Technology with statistics and data coursework
Machine Learning Engineer	Class 12 Physics and Mathematics plus an eligible third subject; your PCM and Computer Science fit.	MHT-CET PCM, JEE Main Paper 1 (B.E./B.Tech)	BE/B.Tech in computing with machine learning, mathematics and deployment projects

Exam dates for your year are on page 28.

A2 · ADDITIONAL INFORMATION

The exams that lead to these colleges

Expected for your admission year, worked out from the latest published schedule. Check the official site before you register.

WHAT THIS MEANS FOR YOU

Your first researched exam is JEE Main in January 2027, with registration closing this November. Apply first, then balance PCM preparation with boards. MHT-CET's exact 2027 dates remain unannounced; counselling requires a separate application after results.

QUESTIONS TO ASK WHEN YOU VISIT OR CALL A COLLEGE

- What is my category-wise 2027–28 total fee, including hostel, mess, deposits and annual increases?
- Which branch projects, robotics facilities and AI electives can first-year students actually access?
- Can you share official branch placement medians, eligible-student counts and recent admission closing ranks?

A3 · ADDITIONAL INFORMATION

College fact sheets

What we confirmed for each college. Anything we couldn't confirm is left out and listed on page 26.

Vishwakarma Institute of Technology

Course	B.Tech Computer Engineering, 4 yrs
Where	Pune · near home · Private autonomous
Admission	MHT-CET / JEE Main; 2025 closing rank 4,095
Fees	₹5.37 L/yr (2026–27, institute-level only); hostel AY 2026–27: minimum hostel fees including mess are Rs.1,35,000/- for boys and Rs.1,30,000/- for girls; refundable deposit Rs. 5,000/-
Placements	92% placement rate in 2025 for B.Tech Computer Engineering (from an aggregator site, not the college); ₹10.2 L avg (2025; aggregator)
Source	en.wikipedia.org · fe2025.mahacet.org · nta.ac.in

COEP Technological University

Course	B.Tech Computer Engineering, 4 yrs
Where	Pune · near home · Public university
Admission	MHT-CET / JEE Main; 2025 closing rank 913
Fees	₹1.26 L/yr (2026–27, Open); hostel AY 2026-27 hostel fee: ₹50,000 per year for MH-CET and All India students; PMC/PCMC residents are ineligible.
Placements	88.65% for B.Tech CSE, AY 2025-26; ₹16.2 L median (2025–26, CSE)
Source	coeptech.ac.in · fe2025.mahacet.org · nta.ac.in

K. K. Wagh Institute of Engineering Education and Research

Course	B.Tech Information Technology, 4 yrs
Where	Nashik · Private
Admission	MHT-CET / JEE Main; Indian national; Class 12 Physics and Mathematics plus a listed science or vocational subject; 45% together, or 40% for Maharashtra backward-class and PwD candidates; entrance score required (from an aggregator site, not the college) (the cited page doesn't clearly say this); 2025 closing rank 19,922
Fees	hostel ₹35,000–₹76,000 annually, inclusive of mess charges (2026 figure) (from an aggregator site, not the college)
Placements	About 80-90% of Information Technology students reportedly got placed (student review; batch of 2029) (from an aggregator site, not the college); Average around 6 LPA (student review; batch of 2029) (from an aggregator site, not the college)
Source	collegedunia.com · fe2025.mahacet.org · shiksha.com

Veermata Jijabai Technological Institute

Course	B.Tech Computer Engineering, 4 yrs
Where	Mumbai · Government-aided autonomous
Admission	MHT-CET through CAP; 2025 closing rank 119
Fees	hostel First-year B.Tech hostel fees for A/B/C/D: Rs. 22710; E: Rs. 33250 (A.Y. 2026-27). Girls' mess fees approx. Rs. 3600/- per month.
Placements	89% for B. Tech CS, Academic Year 2025-2026 (includes higher education, not just employment; placements were ongoing); ₹19.74 L avg (2025–26, CS)
Source	vjti.ac.in · fe2025.mahacet.org

Walchand College of Engineering

Course	B.Tech Electronics Engineering, 4 yrs
Where	Sangli · Government-aided autonomous
Admission	MHT-CET; JEE Main for applicable seats; HSC or equivalent with English, Physics, Chemistry and Mathematics; minimum 50% in PCM (45% for Maharashtra backward-class candidates).; 2025 closing rank 4,498
Fees	hostel For 2026-27: hostel fees are Rs. 27,000/- per academic year for a 4-bed room; boys' 3-bed: Rs. 30,000/-, 2-bed: Rs. 35,000/-. Mess is compulsory and paid separately: girls Rs. 2500/- per month; boys Rs. 2800/- per month.
Placements	56.06% for B.Tech Electronics Engineering, 2024-25 (aggregator-reported) (from an aggregator site, not the college)
Source	walchandsangli.ac.in · fe2025.mahacet.org · nta.ac.in

Prof. Ram Meghe Institute of Technology and Research

Course	BE Computer Science and Engineering, 4 yrs
Where	Badnera · Private autonomous
Admission	MHT-CET / JEE Main; 10+2 (PCM) with minimum 50% marks (from an aggregator site, not the college); 2025 closing rank 31,723
Placements	₹3.85 L median (2023; aggregator)
Source	careers360.com · fe2025.mahacet.org · nta.ac.in

PICT Pune

Course	Computer Engineering, 4 yrs
Where	Pune · near home · Autonomous, SPPU-affiliated
Admission	MHT-CET / JEE Main; 10+2/HSC with Physics and Mathematics and a listed third subject; at least 45%. Diploma candidates may also apply (from an aggregator site, not the college); 2025 closing rank 1,151
Fees	₹1,06,956 tuition fee for F.Y. B.Tech., A.Y. 2026-27; subject to revision. The notes do not specify Computer Engineering or the four-year total.; hostel Hostel double occupancy with attached WC: Rs. 1,25,000; refundable deposit: Rs. 15,000
Placements	95% for BE Computer Engineering, 2025 (from an aggregator site, not the college); ₹10.11 L avg (2025; aggregator)
Source	shiksha.com · fe2025.mahacet.org · nta.ac.in

SIT Pune

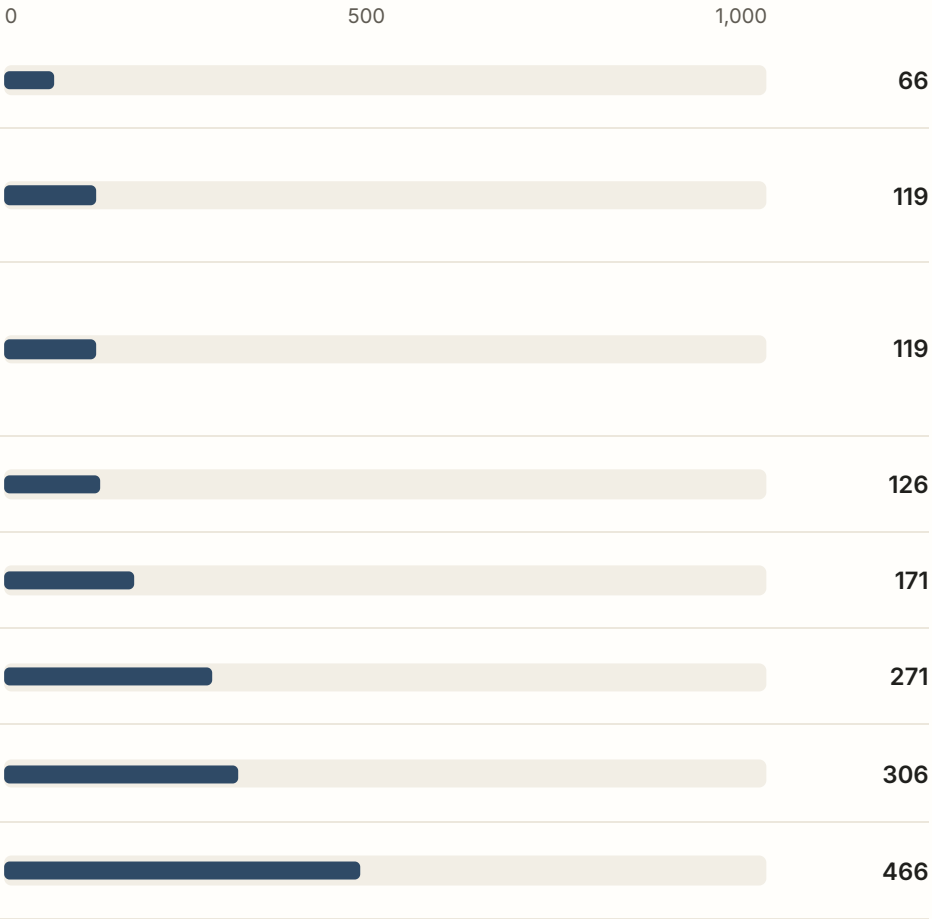
Course	B.Tech Computer Science and Engineering, 4 yrs
Where	Pune · near home · Private
Admission	SITEEE / JEE Main / State CET; 10+2 with Physics and Mathematics, plus one listed eligible subject; at least 45% aggregate (40% for reserved category), or D.Voc. in same/allied sector.
Fees	₹4 L/yr (2026–27)
Source	sitpune.edu.in · nta.ac.in

A4 · ADDITIONAL INFORMATION

What rank gets you where

Last year's closing ranks for your courses: the rank of the last student admitted. A target to aim for, not a promise.

JEE ADVANCED CLOSING RANK, 2025



Shorter bar = harder to get in. General (OPEN) category, gender-neutral seats. **josaa.admissions.nic.in**

~18%

How far a typical closing rank moved between round 1 and the last round. A rank just outside a cut-off can still get a seat later, so stay in every round.

~24%

How much a typical closing rank rose over the years we have. These courses got a little easier to get into; still aim higher than last year's number.

COLLEGES THAT DON'T USE THESE RANKS

SIT Pune admit through their own test or Class 12 marks, so they show the admission method instead of a closing rank.

AFTER THE MAIN ROUNDS

After JoSAA, CSAB's special rounds filled leftover seats in 2025; for the same programmes they closed about 32% later in rank.