



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

कंप्यूटर वैज्ञानिक

A Computer Scientist specialises in the theory of computation and the study of computable systems. They study the theoretical foundations of information and computation, and find ways to apply these principles in real computer...



Scan for everything on this career

Salary, exams, colleges, the routes in and the steps after — all on the portal.

career.gsssjethantri.in/#/career/computer-scientist

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

Govt. Sr. Sec. School, Jethantri · ब्लॉक समदड़ी · बालोतरा (Block Samdari · Balotra)

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सुशील कुमार शर्मा

प्रधानाचार्य, रा.उ.मा.वि. जेठन्तरी · मास्टर ट्रेनर
Principal, GSSS Jethantri · Master Trainer



श्री चेनाराम चौधरी

प्रधानाचार्य, डाइट बाड़मेर
Principal, DIET Barmer



श्रीमती संघमित्रा

वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
Sr. Lecturer, DIET Barmer (Support)



भरत चौधरी

अभिकल्पना व विकास · व्याख्याता (इतिहास)
Designed & developed · Lecturer (History)

विशेष धन्यवाद · SPECIAL THANKS



सुरेन्द्र सिंह राठौड़

व्याख्याता (इतिहास) · रा.उ.मा.वि. कानाना



सुरेश कुमार सैन

व्याख्याता (भूगोल) · रा.उ.मा.वि. रामसीन मूंगड़ा



वनिता कुमारी

व्याख्याता (इतिहास) · रा.उ.मा.वि. रामसीन मूंगड़ा



कमलेश चौधरी

व्याख्याता (राजनीति विज्ञान) · रा.उ.मा.वि. टापरा

करियर मार्गदर्शन कार्यशाला, डाइट बाड़मेर (14-17 जुलाई 2026) में विकसित व लोकार्पित
Developed & unveiled at the Career Guidance Workshop, DIET Barmer (14-17 July 2026)

यह एक स्वतंत्र परियोजना है, जो सरकार की आधिकारिक करियर-मार्गदर्शन सामग्री पर आधारित है। · An independent project based on the Government's official career-guidance content.

1 About this career

A Computer Scientist specialises in the theory of computation and the study of computable systems. They study the theoretical foundations of information and computation, and find ways to apply these principles in real computer systems. It is a strong computer-science career.

2 At a glance

Minimum qualification	B.Tech + M.Tech/PhD (Computer Science)
Avg Salary	₹60,000–₹3,00,000/month
Work Area	Research & software
Demand	High

3 What you need

INTERESTS

- Working on computers
- Experimenting and trying new things
- Analysing problems and situations

ABILITIES

- Deep logical and mathematical thinking
- Practical problem-solving
- Research and analytical ability

KEY SKILLS

- Programming (Python, C++, Java)
- Mathematics & statistics
- Research & paper writing
- Problem-solving & modelling
- Data structures & algorithms
- Machine learning & AI
- Operating systems & system design

4 How to get there

- 1 Complete 10+2 in Science (Physics, Chemistry, Maths).
- 2 Do a Bachelor's (B.Tech/B.Sc) in CS/IT.
- 3 Do a Master's (M.Tech/M.Sc) in Computer Science.
- 4 Do a PhD for a research career.
- 5 Build experience through research projects, internships and publications.

MAIN EXAMS

- JEE Main (for B.Tech)
- GATE (for M.Tech/PhD)
- UGC-NET / CSIR (for research/teaching)
- REAP – Rajasthan Engineering Admission Process

5 Where to study

GOVERNMENT INSTITUTES

- Malaviya National Institute of Technology (MNIT) — Jaipur (<https://mnit.ac.in>)
- IIT Jodhpur — Jodhpur (<https://www.iitj.ac.in>)
- Central University of Rajasthan — Ajmer
- University of Rajasthan (Dept. of Computer Science) — Jaipur

PRIVATE INSTITUTES

- The LNM Institute of Information Technology (LNMIIT) — Jaipur
- Manipal University Jaipur — Jaipur
- BITS Pilani — Pilani

ONLINE

- NPTEL / SWAYAM – Computer Science — Online (<https://nptel.ac.in/courses/106106092>)
- Udemy – Introduction to Computer Science — Online (<https://www.udemy.com/course/introduction-to-computer-science/>)
- IGNOU (Distance) — Online (<https://www.ignou.ac.in>)

FEES

B.Tech/M.Tech/PhD fees range from about ₹45,000 to ₹10,00,000; much lower in government institutes, and PhDs often carry scholarships/fellowships.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- Buddy4Study (<https://www.buddy4study.com>)
- Vidya Lakshmi (Education Loans) (<https://www.vidyalakshmi.co.in>)

6 What the work is like

WHERE YOU WORK

Health technology, scientific research institutes, educational institutions, social media and software companies, the government sector and financial service providers. Freelancing is also possible.

WORK CULTURE

Work is usually 5–6 days a week, 8–9 hours a day; a shift system may apply. Opportunities also exist for persons with disabilities.

WHO HIRES

- | | |
|----------------|---------------------------------|
| • Google | • Microsoft Research |
| • IBM Research | • IITs & IISc (research) |
| • DRDO & ISRO | • Startups & software companies |

DEMAND (2026)

With the growth of AI, data science and advanced computing, demand for skilled computer scientists is strong in both industry and research in 2026.

7 Career growth

- 1 Junior Computer Scientist / Researcher
- 2 Computer Scientist
- 3 Senior Computer Scientist
- 4 Principal Scientist / Research Head

EARNINGS

Starting	₹60,000/माह
Mid level	₹1,50,000/माह
Senior level	₹3,00,000+/माह

Income varies by qualifications, research and institution (2026 estimate).

8 The good parts · The challenges

The good parts

- High pay and a respected career.
- Impact on society through research and innovation.
- Opportunities in both industry and academia.

The challenges

- Requires long study (Master's/PhD).
- Research results can take a long time.
- Must keep learning new technology continually.

9 Real-life journeys

Kavita Bala

Professor & Provost, Cornell University (Computer Graphics & Vision)

Born in Mumbai, computer scientist Prof. Kavita Bala earned a B.Tech from IIT Bombay and a PhD from MIT. Her research in computer graphics and computer vision—including the Lightcuts rendering algorithm and material recognition—earned international recognition. She is the Provost of Cornell University and an ACM Fellow.

Wikipedia · https://en.wikipedia.org/wiki/Kavita_Bala

Sundar Pichai

CEO, Google and Alphabet

Born in Tamil Nadu, Sundar Pichai studied at IIT Kharagpur and then at Stanford in the US. Backed by a deep grasp of computer science, he is today CEO of Google and Alphabet, one of the world's largest technology companies.

Wikipedia · https://en.wikipedia.org/wiki/Sundar_Pichai

10 If this route does not work out

One exam or one attempt does not close the door. The same subjects also open these routes — entry is usually easier, and you can return to this field later.

- Data Scientist
- AI Research Scientist
- Software Developer

11 Sources & further reading

1. Rajasthan Career Guidance (source) — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%95%e0%a4%82%e0%a4%aa%e0%a5%8d%e0%a4%af%e0%a5%82%e0%a4%9f%e0%a4%b0-%e0%a4%b5%e0%a5%88%e0%a4%9c%e0%a5%8d%e0%a4%9e%e0%a4%be%e0%a4%a8%e0%a4%bf%e0%a4%95computer-scientist/>
2. NIRF Rankings — <https://www.nirfindia.org>
3. NPTEL Computer Science — <https://nptel.ac.in/courses/106106092>
4. Salary reference (PayScale) — https://www.payscale.com/research/IN/Job=Computer_Scientist/Salary



And 770+ more careers — the whole portal

Interest and aptitude tests, government jobs, skill courses and a CV builder — free, no login, and it works offline.

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