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करियर मार्गदर्शन पोर्टल • Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट • CAREER SHEET

बिग डेटा विश्लेषक

Big data analysts pull patterns and useful insights out of massive data sets to guide decisions of companies and government. In the AI era it is one of the fastest-growing careers.



Scan for everything on this career

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

career.gsssjethantri.in/#/career/eng-4601

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

Big data analysts pull patterns and useful insights out of massive data sets to guide decisions of companies and government. In the AI era it is one of the fastest-growing careers.

2 At a glance

Minimum qualification	12th PCM + B.Tech/degree plus data analytics course
Work mode	Desk job; hybrid/remote common
Demand	Very high - every industry needs data experts
Top earning	Data architect/Chief Data Officer: Rs 3 lakh+/month

3 What you need

INTERESTS

- Playing with numbers and figures
- Interest in computers and research
- Analysing problems

ABILITIES

- Strength in maths and statistics
- Attention to detail
- Logical-analytical thinking

KEY SKILLS

- SQL and databases
- Big data tools like Hadoop, Spark
- Grasp of statistics and machine learning
- Storytelling with data
- Python/R programming
- Visualisation with Power BI/Tableau
- Cloud platforms (AWS/Azure)

4 How to get there

- 1 Pass 10+2 with Physics, Chemistry, Maths.
- 2 Do B.Tech (CSE/IT) via JEE/REAP, or B.Sc/BCA.
- 3 Learn SQL, Python and analytics tools; take certifications.
- 4 Optionally do M.Tech/M.Sc/PG diploma in big data analytics.
- 5 Build a portfolio through projects-internships and land a data analyst job.

MAIN EXAMS

- JEE Main / JEE Advanced
- REAP (Rajasthan)
- BITSAT
- GATE (for M.Tech)

5 Where to study

GOVERNMENT INSTITUTES

- MNIT Jaipur — Jaipur, Rajasthan (<https://www.mnit.ac.in>)
- IIT Jodhpur (AI & Data Science) — Jodhpur, Rajasthan (<https://iitj.ac.in>)
- Rajasthan Technical University (RTU) — Kota, Rajasthan (<https://www.rtu.ac.in>)
- MBM University — Jodhpur, Rajasthan (<https://www.mbm.ac.in>)

PRIVATE INSTITUTES

- BITS Pilani — Pilani, Rajasthan (<https://www.bits-pilani.ac.in>)
- Manipal University Jaipur — Jaipur, Rajasthan (<https://jaipur.manipal.edu>)
- LNMIIT — Jaipur, Rajasthan

ONLINE

- NPTEL/SWAYAM (Data Science courses) — Online (<https://nptel.ac.in>)
- IIT Madras Online BS in Data Science — Online

FEES

B.Tech costs about Rs 2-4 lakh in government institutes and Rs 4-12 lakh in private ones (full course); analytics certification/PG diploma Rs 50,000-2 lakh.

SCHOLARSHIPS

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

6 What the work is like

WHERE YOU WORK

IT companies, banks-fintech, e-commerce, healthcare, government departments and research bodies; a growing analytics sector in Jaipur.

WORK CULTURE

Office/desk work with data scientists and IT teams; usually 8-9 hours, more near deadlines. Good opportunities for persons with disabilities.

WHO HIRES

- | | |
|--------------------------------------|---------------------------------------|
| • TCS / Infosys / Wipro | • Amazon / Flipkart / Paytm |
| • Banks and insurers (SBI, HDFC) | • Analytics firms (Fractal, Mu Sigma) |
| • Government agencies (NIC, RajComp) | • Startups and consulting firms |

DEMAND (2026)

With AI and Digital India, demand for data analysts is very high in 2026; even skilled freshers get strong packages.

7 Career growth

- 1 Big Data Analyst
- 2 Big Data Engineer
- 3 Data Scientist
- 4 Data Architect
- 5 Chief Data Officer

EARNINGS

Starting	₹30,000-60,000
Mid level	₹80,000-1,50,000
Senior level	₹2,00,000-3,50,000+

Monthly pay, 2026 levels; varies by skill, city and company, indicative.

8 The good parts · The challenges

The good parts

- High pay and fast growth
- Needed in every industry
- Remote/global work opportunities

The challenges

- Tools change constantly, continuous learning needed
- Long screen hours
- Stiff competition at entry level

9 Real-life journeys

Srikanth Velamakanni

Co-founder & Group CEO, Fractal Analytics

Educated at IIT Delhi and IIM Ahmedabad, Srikanth co-founded Fractal Analytics in 2000. After 22 years of persistence, the data analytics firm became a unicorn in 2022.

Forbes India · <https://www.forbesindia.com/article/saas-rising/order-chaos-and-emotional-intelligence-how-fractal-turned-unicorn-after-22-years/76431/1>

Prukalpa Sankar

Co-founder, Atlan and SocialCops

At 21, Prukalpa co-founded SocialCops, whose data work powered major Government of India schemes. Today her company Atlan builds tools for data teams worldwide.

Forbes India · <https://www.forbesindia.com/article/saas-rising/saasy-women-how-prukalpa-sankars-atlan-brings-context-to-data/76401/1>

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.

- Civil Engineer
- Agricultural Engineer
- Aeronautical Engineer

11 Sources & further reading

1. Rajasthan Career Guidance: Big Data Analyst — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%ac%e0%a4%bf%e0%a4%97-%e0%a4%a1%e0%a5%87%e0%a4%9f%e0%a4%be-%e0%a4%b5%e0%a4%bf%e0%a4%b6%e0%a5%8d%e0%a4%b2%e0%a5%87%e0%a4%b7%e0%a4%95-%e0%a4%ac%e0%a4%bf%e0%a4%97-%e0%a4%a1%e0%a5%87%e0%a4%9f/>
2. AICTE — <https://www.aicte-india.org>
3. NPTEL (free online courses) — <https://nptel.ac.in>
4. National Career Service (NCS) — <https://www.ncs.gov.in>



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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