



नेचुरल लैंग्वेज प्रोसेसिंग इंजीनियर

An NLP Engineer builds systems that let computers understand, read and speak human language. Using machine learning and large language models (LLMs), they create chatbots, translation, voice assistants and text-analysis tools. In...



Scan for everything on this career

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

career.gsssjethantri.in/#/career/nlp-engineer

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

An NLP Engineer builds systems that let computers understand, read and speak human language. Using machine learning and large language models (LLMs), they create chatbots, translation, voice assistants and text-analysis tools. In 2026, generative AI has made this one of the most in-demand tech roles.

2 At a glance

Minimum qualification	B.Tech/M.Tech in CS or AI
Average Salary	₹8–25 LPA
Work mode	Desk job, remote possible
Demand	Very high (2026)

3 What you need

INTERESTS

- Building new, modern technology
- Interest in language and words
- Solving problems logically

ABILITIES

- Strong grasp of maths, data and graphs
- Recognising and analysing language
- Working with software and tools

KEY SKILLS

- Python programming
- NLP libraries (spaCy, Hugging Face)
- Maths, statistics and linear algebra
- Machine learning and deep learning
- Large language models and transformers
- Data processing and cloud (AWS/GCP)

4 How to get there

- 1 Complete Class 12 in Science (PCM)
- 2 Do B.Tech in CS/IT/AI via entrance exams like JEE
- 3 Take online courses and projects in Python, ML and NLP
- 4 Gain hands-on experience through internships
- 5 Optional: pursue M.Tech or specialisation in AI/ML

MAIN EXAMS

- JEE Main / JEE Advanced (B.Tech admission)
- GATE (CS) — for M.Tech and jobs

5 Where to study

GOVERNMENT INSTITUTES

- MNIT Jaipur — Jaipur, Rajasthan (<https://mnit.ac.in>)
- IIIT Kota — Kota, Rajasthan (<https://iiitkota.ac.in>)
- Central University of Rajasthan — Ajmer, Rajasthan (<https://curaj.ac.in>)
- IITs (विभिन्न कैम्पस) — India (<https://www.iitsystem.ac.in>)
- NITs (विभिन्न कैम्पस) — India

PRIVATE INSTITUTES

- BITS Pilani — Pilani, Rajasthan (<https://www.bits-pilani.ac.in>)
- Manipal University Jaipur — Jaipur, Rajasthan (<https://jaipur.manipal.edu>)
- Poornima University — Jaipur, Rajasthan (<https://poornima.edu.in>)
- VIT Vellore — Vellore, Tamil Nadu (<https://vit.ac.in>)

ONLINE

- SWAYAM / NPTEL — Online (<https://swayam.gov.in>)
- IGNOU — Online (<https://www.ignou.ac.in>)
- Coursera (AI विशेषज्ञता) — Online (<https://www.coursera.org>)

FEES

About ₹50k–₹2 lakh per year in government institutes; higher in private. Online specialisations are cheaper or even free.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- Buddy4Study (<https://www.buddy4study.com>)
- SJE Rajasthan Scholarships (<https://sje.rajasthan.gov.in>)

6 What the work is like

WHERE YOU WORK

Tech companies, research institutes, startups, IT and consulting firms, government and defence organisations.

WORK CULTURE

Mainly a desk job, often remote-friendly. Around 5–6 days a week with occasional overtime. Freelance and contract work also available.

WHO HIRES

- | | |
|------------------------------------|-----------------------|
| • Google, Microsoft, Amazon | • TCS, Infosys, Wipro |
| • AI startups (Sarvam AI, Krutrim) | • Meta, IBM, Adobe |
| • AI4Bharat and research labs | |

DEMAND (2026)

Demand for NLP — especially for generative AI and Indian languages — is rising fast in 2026, with a big shortage of skilled engineers.

7 Career growth

- 1 Junior NLP Engineer
- 2 Senior NLP Engineer
- 3 NLP Team Lead / Manager
- 4 NLP Research Scientist

5 Chief Data Scientist / CTO

EARNINGS

Starting	₹8L
Mid level	₹18L
Senior level	₹50L+

Approximate annual pay; varies with skills, company and location.

8 The good parts · The challenges

The good parts

- High salary and global opportunities
- Work on cutting-edge AI technology
- Remote and freelance flexibility

The challenges

- Requires strong maths and coding
- Must keep learning new technology constantly
- Sometimes long hours and overtime

9 Real-life journeys

Sunita Sarawagi

Professor, Computer Science, IIT Bombay

Sunita Sarawagi is a renowned professor of machine learning and NLP at IIT Bombay. Her pioneering research in information extraction and data integration earned her the 2019 Infosys Prize, making her one of India's most influential AI researchers.

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

Mitesh Khapra

Co-founder, AI4Bharat; Professor, IIT Madras

Mitesh Khapra is a professor at IIT Madras and co-founder of AI4Bharat. He built NLP datasets and models for Indian languages so AI can understand every official Indian language, and was named in the 2025 TIME 100 AI list.

Open Source For You · <https://www.opensourceforu.com/2025/09/mitesh-khapra-of-iit-madras-honoured-in-time-100-for-ai4bharat-datasets/>

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.

- Robotics Engineer
- AI Product Manager
- Computer Network Architect

11 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%a8%e0%a5%87%e0%a4%9a%e0%a5%81%e0%a4%b0%e0%a4%b2-%e0%a4%b2%e0%a5%88%e0%a4%82%e0%a4%97%e0%a5%8d%e0%a4%b5%e0%a5%87%e0%a4%9c-%e0%a4%aa%e0%a5%8d%e0%a4%b0%e0%a5%8b%e0%a4%b8%e0%a5%87%e0%a4%b8%e0%a4%bf/>
2. MNIT Jaipur — <https://mnit.ac.in>
3. AI4Bharat (Indian language NLP) — <https://ai4bharat.iitm.ac.in>
4. Hugging Face (NLP tools) — <https://huggingface.co>



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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