

Piyush Sarangi

Undergraduate Student at IIT Kharagpur

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AREAS OF INTEREST

Computational Linguistics | Natural Language Processing | Statistics | Machine Learning | Historical Linguistics

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2027	B.Tech, Electrical Engineering	IIT Kharagpur	9.12 / 10
2022	Class XII, CBSE	LR DAV Public School, Cuttack	99.6%
2020	Class X, CBSE	LR DAV Public School, Cuttack	98.6%

AWARDS AND ACHIEVEMENTS

- Secured All India Rank 3 in AISCCE 2022 (CBSE Class XII examination)
- Qualified ISI B.Stat 2023 with All India Rank 88
- Won Bronze Honour in the International Linguistics Challenge 2025 (among top 5% of the participants)

RELEVANT COURSEWORK

Mathematics & CS: Machine Learning*, Deep Learning*, Programming & Data Structures, Computer Architecture and OS, Probability & Statistics, Linear Algebra, Complex & Numerical Analysis, Advanced Calculus

Linguistics: Introduction to Language & Linguistics, Paninian Grammar from Computational Perspective, Linguistic Typology Through Indian Languages*

Control Theory and Reinforcement Learning: AI for Cyber Physical Systems*, Control System Engineering, Control and Instrumentation Lab, Control and Electronic System Design

* Indicates Graduate level courses

ADDITIONAL TRAINING

- NYI Winter Intensive (2026):** Advanced Certificate Program in Computational Linguistics & Formal Semantics
- MOOCs:** Linear Algebra*, Probabilistic Systems Analysis & Applied Probability*, Mathematics for CS*

* Indicates courses from MIT Open Course Ware

PROJECTS

Probably Prakrit - Learn sound change rules through Data | Prof. Pawan Goyal *May 2026 - Present*

- Scrapped MIA - Sanskrit cognates from various dictionaries

Reduplication in Toto 📄 | Prof. Bornini Lahiri *Feb 2026 - Apr 2026*

- Conducting fieldwork on reduplication in Toto, a critically endangered Tibeto-Burman language (1,411 speakers)
- Investigating methodological challenges in cross-linguistic elicitation contexts
- Designed elicitation questionnaire and developed STIPA for Toto

Code Switching and Code Mixing in IIT Kharagpur 📄 | Prof. Dripta Mondal (Piplai) *Nov 2024 - Dec, 2024*

- Studied the impact of Code Switching and Code Mixing on syntax in IIT KGP Campus
- IPA Transcription was done using rule based G2P

SKILLS

Programming Languages: C, Python, MATLAB, R

Tools & Software: LaTeX, Praat, Hugging Face, Git, Knitr

Python Libraries: Epitran, XPF Corpus, SymPy, TensorFlow, PyTorch, Matplotlib, pandas

Languages Known: Odia, Hindi, English, Bengali, Sanskrit, German (in decreasing order of fluency)