Mrunal Kumbhare

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Education

National Institute of Technology, Hamirpur	**Sep 2024 – Present**
Master of Technology (CSE)	*8.23 CGPI*
SVIT Nashik, Affiliated to Pune University	**Sep 2017 – June 2021**
Bachelor of Technology (Mechanical Engineering)	*7.33 CGPA*

Technical Skills

Languages: C++, JavaScript, HTML5, CSS, SQL, Python
Frameworks/Technologies: React.js, Node.js, Express.js
Data Science/Machine Learning: NumPy, Pandas
Databases: MongoDB
Developer Tools: Git, GitHub, Postman, VS Code
Core Subjects: OOP, DSA, OS, DBMS, CN

Projects

Den of Developers | *Node.js, React.js, Express.js, MongoDB*
- Developed a networking platform for developers and students to find project collaborators and build connections.
- Built secure RESTful APIs for user authentication, connection requests (send, accept, reject), and profile management.
- Focused on enhancing collaboration by enabling users to discover like-minded peers based on interests and tech stack.

Research Experience

Graduate Researcher — M.Tech Thesis (Ongoing)   *Aug 2025 – Present*
National Institute of Technology, Hamirpur

Title: *Data Augmentation for English–Hindi Parallel Corpora using Parse Trees and Large Language Models*
Supervisor: *Dr. Arun Kumar Yadav, Department of Computer Science and Engineering, NIT Hamirpur*

- Conducting research on enhancing **low-resource English–Hindi machine translation** using advanced **data augmentation techniques**.
- Designing a **syntactic parse tree–based augmentation pipeline** integrated with **large language models (LLMs)** for paraphrase generation.
- Focusing on maintaining **semantic consistency** while increasing corpus diversity for neural translation models.
- Thesis aims to improve **translation quality and data efficiency** for low-resource language pairs.

Achievements

- Qualified **GATE** (Computer Science) in 2023 and 2024.

Certifications

- Completed Siemens-authorized training in **Teamcenter PLM Customization** (2021).