Praneesh Sharma

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Education

Kalinga Institute of Industrial Technology, India — Graduation: Aug 2025

- Bachelor of Technology, Computer Science Engineering

École Nationale Supérieure de l'Électronique et de ses Applications, France — Sep 2024 - Jan 2025

- Semester Exchange Program, Electrical and Computer Engineering

Technologies

Languages: Python 3 yrs, Java 2 yrs

Developer Tools: Pycharm, Power BI, Colab, Jupyter, Kaggle, GitHub, Vercel

Frameworks: TensorFlow, PyTorch, Huggingface

Cloud/Databases: GCP, AWS, SQL

Technical Skills: Data Analytics, Deep Learning, Research, Git, Blockchain

Experience

Machine Learning Intern, Celebal Technologies – Bhubaneswar, IN — Jun 2024 – Aug 2024

- Applied **Isolation Forests** and **Autoencoders** (**TensorFlow**, **Scikit-learn**) to analyze 4K+ records, reducing false positives by 15%.
- Improved **network traffic monitoring** with anomaly detection (macro precision: 0.02), enhancing threat identification and response times.

Machine Learning Trainee, Hindustan Petroleum Corporation Ltd – Mumbai, IN — May 2023 – Jul 2023

- Led a team of 4 to develop predictive models using **LSTM** and **ANN** (**Tensorflow**, **Keras**), optimizing chemical procurement in refinery operations by improving efficiency and saving time.
- Implemented a **demand forecasting** model with an accuracy of 83.4%, which allows for the weekly planning of essential chemical supply.
- Fully automated the procurement process through data-driven demand prediction, replacing manual purchasing methods with an automated system.

Publications

Identification of Hope Speech of YouTube comments in Mixed Languages — Sep 2023

Proceedings of the International Conference on Recent Advances in Natural Language Processing (RANLP 2023)
2023.ltedi-1.33 Google Scholar

Projects

Historia, Team Project (~50 hours) — GitHub

- Developed an interactive story generator for young children, allowing them to choose the progression of the story at key stages, enhancing engagement and creativity.
- Integrated 3 APIs for dynamic story generation, picture creation, and voiceover, providing a multimedia experience to bring the stories to life.

Smart Automated Traffic Management, Team Project (~30 hours) — GitHub

- Built a real-time traffic analysis system with YOLOv3 for vehicle detection and emergency identification.
- Designed adaptive signal control to improve traffic flow and emergency response times.

Music Recommendation System, Team Project (~30 hours) — GitHub

- Developed a real-time music recommendation system using KNN, integrating with users' Spotify accounts.
- Recommended songs similar to user's tastes from the top 1000 trending songs.

Others

Frankfurt School of Finance & Management, Germany (Remote) — Jan 2025 - Present

- Bitcoin Talents Cohort Fellow