

SUMMARY

Driven Data Science and AI/ML enthusiast with Python and deep learning experience, skilled in time-series forecasting and AI solutions. Actively exploring LLMs and agentic AI, with a strong focus on solving real-world problems through data-driven insights.

Domain Focus Areas: Deep learning, Time Series Forecasting, Natural Language Processing

SKILLS

Technical skills

- **Languages:** Python, SQL, C++, C
- **ML & DL:** Supervised ML, CNN, RNN, LSTM, GRU, Transformers, NLP
- **Frameworks:** PyTorch, TensorFlow, LangChain
- **Time Series:** Feature Engineering, Forecasting, Sequence Modeling
- **Statistics:** Probability, Inferential Statistics

EXPERIENCE [link](#)

ALDC- Area Load Despatch Centre, MSETCL (MAHATRANSCO)

Duration: July 2025 - Present

Role: Technical Member (Machine learning)

Project: Electricity Load Forecasting

- Built deep learning-based short-term electricity load forecasting models (LSTM, BiLSTM, CNN, Transformer) using SCADA and AMR data for a government consultancy project.
- Processed 1 lakh+ data records, including resampling, interpolation, and handling missing values.
- Forecasted electricity load demand at multiple horizons, 15 min, 1 hr, & 1 day ahead achieving MAPE < 2%.
- Collaborated with power system engineers from ALDC to optimize model performance and data processing

EDUCATION

St. Vincent Pallotti College of Engineering and Technology, Nagpur

B-Tech - Computer Science and Engineering (Data Science)

2023 – 2027 (Pursuing)

PROJECTS

Electricity Load Forecasting

- Developed deep learning time-series forecasting system using SCADA & AMR datasets.
- Forecasted electricity demand at multiple horizons — 15 minutes, 1 hour, and 1 day ahead.
- Achieved: MAPE of 0.61% ($R^2=0.995$) at 15-min, 1.06% ($R^2=0.986$) at 1-hour, and 1.88% ($R^2=0.910$) at 1-day horizons.

Smart Gamified Learning Buddy

- Built an AI-based personalized learning platform with intelligent roadmap generation, a RAG-powered chatbot
- Added an integrated coding workspace for hands-on practice.
- Implemented K-Means clustering to create collaborative learning groups and personalize recommendations.
- Added interactive quizzes, gamification, and progress-based project suggestions to boost learner engagement.

AI-Powered Research Paper Classifier

- Built an NLP model to classify publishable vs non-publishable papers & recommend the best-fit conferences.
- Used Pathway for real-time data streaming + Vectorstore for similarity search.

ACHIEVEMENTS [link](#)

BITS Pilani (IndoML 2025)

Reached the final round and secured acceptance for presenting research proposal at Sixth Indian Symposium on Machine Learning (IndoML), hosted by BITS Pilani – Hyderabad Campus.

HacKronyX Hackathon (National Level) — 3rd Prize

Developed AI Companion Quest, a smart gamified learning platform with personalized learning paths, AI-driven roadmaps, RAG-based chatbot, collaborative learning using K-means, quizzes, gamification, and project recommendations.

Top 20 National Finalist – IIT Kharagpur National Data Science Hackathon

Ranked Top 20 among 9,913+ teams at KDSH 2025. Developed an AI/ML model for research paper publishability prediction and conference matching, integrating Pathway real-time processing, Google Drive connector, and vector search. Strengthened skills in AI, ML, real-time data pipelines, and large-scale text analysis.