

## 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

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## 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
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## 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
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## EDUCATION

### St. Vincent Pallotti College of Engineering and Technology, Nagpur

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

2023 – 2027 (Pursuing)

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## 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.
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## 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.

### HackKronyX 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.