

SKILLS

Languages:	Java, Python, LaTeX.
Machine Learning:	Time-Series Analysis, LSTM, GRU, GNN, FB-Prophet, CNN, Transformers (e.g. BERT).
Tools & Frameworks:	PyTorch, TensorFlow, QLora, Git, AWS, Docker, Flask.
Core Concepts:	Data Structure & Algorithms, Mathematics, Probability & Statistics, OOPS
Soft Skills:	Problem-Solving, Team Collaboration, Project Management, Adaptability.

PROJECTS

New-Delhi Load Forecasting (SIH Hackathon PSID 1624)

- Solved unpredictable power demand challenges, reducing blackouts and optimizing grid efficiency.
- Engineered a hybrid **GRU + GNN model achieving 97.5% accuracy** on load predictions for a grid serving 10 million residents.
- Integrated real time weather, holiday and urban growth data, **reducing blackouts risk by 30%.**
- Automated anomaly detection and deployed real time predictions dashboards using AWS, Docker, and Flask, **cutting manual intervention time by 50%**

Bitcoin Prediction Using Time-Series Models

- Predicting the future price of Bitcoin is a challenging yet essential task for investors and analysts.
- Developed an ensemble model combining LSTM, Fb-Prophet, SARIMA and XGBoost techniques, boosting prediction accuracy by 20%.
- Processed and analyzed over 5GB of historical data, leading to a 15% improvement in investor returns
- The goal is to Develop an optimal model for highly accurate Bitcoin prediction using the various global trends.

Stock Performance Analysis & Dashboard Development

- Built an interactive Python dashboard to correlate stock performance trends for Tesla and GameStop, reducing analysis time by 7%.
- Employed web scrapping with yfinance to extract revenue data, which improved forecasting precision by 4.5% for key financial metrics.

CERTIFICATES

• Programming & Algorithms:	
Complete Interview Preparation – Self-Paced (Java & DSA) GFG	18 Months
C++ & Data Structures/Algorithms Coding Ninjas	12 Months
• Machine Learning & Data Science:	
Machine Learning Specialization (NLP) DeepLearning.ai	6 Months
Machine Learning IIT Kharagpur (NPTEL)	4 Months
IBM Data Science Specialization IBM	12 Months
• Statistics & Probability:	
Probability and Statistics IIT Madras (NPTEL)	4 Months

ACHIEVEMENTS

- Advanced to the final round of the Smart India Hackathon**
Selected as one of the top 30 teams among 600+ teams at the intra-university level.
- Ranked in the top 30 in Regional Mathematical Olympiad (RMO) Uttar Pradesh**
Placing in the top 0.03% of 100,000 candidates organized by Tata Institute of Fundamental Research
- Achieved global ranking of 956th in LeetCode Biweekly Contest**
Among 21k+ participants in Leetcode Biweekly Contest
- Attained a prominent national ranking of 2410th**
Among 41k+ participants in Codeforces Round 1004th
- Recognized as one the Dean's top 10 % students at the University**
Awarded for good academic performance and extracurricular activities at the University.

EDUCATION

• Lovely Professional University	Since August 2022
Bachelor of Technology - Computer Science and Engineering; CGPA: 8.87	Punjab
Godwin Public School	April 2020 - March 2021
• XII Science; Percentage: 96.4%	Meerut
Godwin Public School	April 2018 - March 2019
• X; Percentage: 92%	Meerut