

Aditya Mishra

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🔗 mishra-bytes

EDUCATION

Bachelors Of Technology (Instrumentation & Control Engineering)

Netaji Subhas University Of Technology

Current CGPA - 7.58

08/2023 – present

Delhi, India

C.B.S.E (Class - XII)

The Mother's International School

Percentage - 90%

2022

Delhi, India

C.B.S.E (Class - X)

The Mother's International School

Percentage - 91.3%

2020

Delhi, India

SKILLS SUMMARY

Python, SQL, Power BI, Excel, Pandas, Jupyter Notebooks, NumPy, Matplotlib, Seaborn, Scikit-learn, Machine Learning, TensorFlow, SQLite, Folium, IBM Cloud, MATLAB, Java

EXPERIENCES

NSUT Research Intern

05/2024 – present

Project: Bayesian-Tuned LSTM for SoC Prediction in EV Batteries

- Developed and optimized an LSTM-based deep learning model for real-time State of Charge (SoC) prediction using real-world BMW i3 trip data under varying environmental and load conditions.
- Streamlined a robust data pipeline, including advanced imputation, sequence generation, and feature integration (e.g., weather, route) to improve model reliability and interpretability.
- Applied Bayesian hyperparameter tuning and regularization techniques to enhance model performance, outperforming traditional ML approaches in capturing temporal patterns.
- Enabled explainability and model transparency using feature correlation and interpretability techniques, supporting smarter battery management strategies in EV systems.
- Leveraged TensorFlow with GPU acceleration for efficient model training and deployed results to guide future exploration of hybrid and physics-informed deep learning models.

Technologies Used: Python, TensorFlow, Keras, scikit-learn, SHAP, pandas, NumPy, Google Colab

Key Skills: Deep Learning, LSTM, Time-Series Analysis

Physics Wallah Mentor - Remote

06/2024 – 05/2025

Mentor

- Managed academic progress and engagement for a large student cohort with cross-functional collaboration and data-driven insights.
- Mentored & tracked academic progress for 1800+ students, exhibiting strong leadership, organization, and student success management.
- Acted as a communication bridge between students, HR, and academic teams to ensure clarity in performance metrics and enable process improvements.
- Conducted structured virtual learning sessions and individual feedback reviews, driving improved student performance and engagement.
- Contributed to continuous learning optimization by identifying performance trends and supporting strategic academic planning.

Key Skills: Leadership, Stakeholder Communication, Academic Mentorship, Performance Tracking, Cross-functional Coordination, Virtual Facilitation

PROJECTS

StockVision (Tensorflow , Streamlit , FastAPI , OpenRouter)

- Developed and deployed an LSTM-based model using TensorFlow to forecast next-hour stock close prices, utilizing yFinance data and 9 technical candlestick patterns as features(eg : Bullish Engulfing, Morning Star, Three White Soldiers etc.) .
- Implemented SHAP (SHapley Additive exPlanations) for feature attribution and integrated FastAPI to serve predictions via a backend API with real-time ticker extraction from user's query using Gemini-2.5pro-experimental (free) LLM through OpenRouter's service.
- Designed an interactive Streamlit dashboard for live stock selection, model explainability visualization, and trend forecasting; hosted on Render with model versioning and GitHub integration.

Technologies : Python, TensorFlow (Keras), LSTM, SHAP, yFinance API, Pandas, NumPy, Scikit-learn, FastAPI, Streamlit, OpenRouter.

POSITION OF RESPONSIBILITY

Joint Secretary - IEEE NSUT

Managing and organising mega-events like TENSYP 2024. Working with a team of 300+ members.

Executive Committee Member -Finance & Economics Society of NSUT

Worked in management of speaker sessions.

Junior Council - DevComm

Organising Machine Learning sessions for members and speaker session on competitive programming under "Summer Week".

AWARDS / CERTIFICATIONS

- IBM Data Science Professional Certification
- Shri Ram Kishan Das Jain Memorial Award for Positive personality trait (Initiative) [2022]
- Ramanujan and Aryabhatta Interschool Mathematics competitions' runners up in class 5th , 8th(winner) and 10th(4th among 25+ schools in New Delhi).(Part of the 10 member team representing my school)
- Part of the school football team (won 2 bronze and 1 silver in different editions of Zonal Competitions.)