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VINAY BATTHULA

Data Analyst

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Education

Masters of Technology, *National Institute of Technology Warangal* Jun 2025
B.Tech in Electrical Engineering, *Jawaharlal Nehru Technological University Hyderabad* Oct 2021

Skills

Programming	**Python, MySQL**
Packages and Frameworks	Sci-kit-learn, TensorFlow, Keras, PyTorch, NumPy, Pandas, Matplotlib, Seaborn, SciPy
Tools and Technology	**Simulink, MATLAB, GitHub, Anaconda Navigator, Jupyter Notebook, VS Code, LaTeX, Kaggle**
Soft Skills	Effective communication, Analytical problem-solving, Drive to learn
Mathematical Foundations	**Classical Machine Learning, Algebra, Probability, Applied Statistics**

Experience

Subject Matter Expert – Electrical Engineering & Advanced Mathematics
Oct 2020 – Dec 2024

Chegg India (Remote) – Part-time

Technologies:Advanced Math, Electrical Engineering, Technical Writing

- Collaborated with **Chegg Inc.**, a global ed-tech company, to solve over **1000+ quantitative problems** in advanced mathematics and electrical engineering.
- Applied concepts from **linear algebra, probability, statistics, and differential equations** to deliver accurate, step-by-step solutions under tight deadlines.
- Maintained a **>90% student satisfaction rating**, consistently delivering high-quality support in a fast-paced remote environment.

PROJECTS

Tesla Stock Price Prediction using LSTM
Feb 2025–Mar 2025

github.com/BatthulaVinay *(Personal Project)*

Technologies: Python, TensorFlow, scikit-learn, Pandas, NumPy, Matplotlib

- **Developed an LSTM-based deep learning model** to forecast Tesla stock prices using **3,636** historical OHLC time-series data points.
- **Engineered a data preprocessing pipeline** with MinMaxScaler and windowed sequences, enabling effective sequence learning and improving model convergence.
- **Achieved 91% directional accuracy** in predicting stock movement on unseen data.
- **Visualized performance trends** with actual vs. predicted plots, identifying overfitting and validating model generalization.

Loan Approval Prediction using Machine Learning
Jan. 2025 —- Feb. 2025

github.com/BatthulaVinay *(Personal Project)*

Technologies: Python, scikit-learn, Pandas, NumPy, Seaborn, Matplotlib

- **Developed a supervised machine learning pipeline** to predict loan approvals using socio-financial features of applicants.
- **Processed 599 records** with imputation, label encoding, and feature scaling to ensure model readiness.
- **Achieved 82% accuracy** using classifiers including **Random Forest, KNN, SVM, and Logistic Regression**.
- **Performed exploratory data analysis with visualizations** like heatmaps and pairplots to identify key drivers of loan approval.

Heart Disease Prediction using Logistic Regression
Dec 2024 – Jan 2025

github.com/BatthulaVinay *(Personal Project)*

Technologies: Python, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

- **Constructed a logistic regression model** using the UCI Heart Disease dataset (**4,241** patient records) to predict heart disease risk.
- **Selected key predictive features** through correlation analysis and statistical filtering to enhance model performance.
- **Delivered 85% classification accuracy**, validated using precision, recall, and F1-score metrics.
- **Communicated insights through intuitive visualizations**, making results accessible to non-technical audiences.

Achievements

- Achieved **5-star** badge in Python on HackerRank
- Achieved **5-star** badge in SQL on HackerRank
- Solved **90+ problems** on LeetCode

Certifications

- **Python (Basic)** — HackerRank Certified [View Certificate]
- **SQL (Intermediate)** — HackerRank Certified [View Certificate]