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VINAY BATTHULA

Aspiring Data Scientist

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Summary

Aspiring Data Scientist with a solid foundation in machine learning, deep learning, and statistical analysis, strengthened by hands-on project experience. Proven ability to design and predictive models using ML algorithms and TensorFlow—demonstrated in real-world applications such as stock price forecasting and healthcare analytics. Currently pursuing an M.Tech in Electrical and Electronics Engineering (Smart Electric Grid) with a strong passion for data-driven decision-making.

Education

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

Relevant Coursework

- Data Science Applications
- Machine Learning and Applications

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**

PROJECTS

Tesla Stock Price Prediction using LSTM

March 2025
github.com/BatthulaVinay *(Personal Project)*

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

- **Built a deep learning model using LSTM** to forecast Tesla stock prices using historical **time-series** data.
- **Preprocessed OHLC stock data** using MinMaxScaler and windowed sequences for sequential learning.
- **Achieved test accuracy of over 91%** in predicting stock price movement direction.
- **Visualized model performance** through predicted vs. actual plots for better insight into model behavior.

Loan Approval Prediction using Machine Learning

Feb 2024
github.com/BatthulaVinay *(Personal Project)*

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

- **Built a binary classification model** to predict loan approval based on applicant socio-financial features.
- **Performed extensive data preprocessing** including imputation, encoding, and normalization.
- **Achieved an overall accuracy of 82%**, evaluated using **RandomForest, KNN, SVM, LogReg**.
- **Explored feature relationships using heatmaps and pairplots** to identify key predictors.

Heart Disease Prediction using Logistic Regression

Jan 2025
github.com/BatthulaVinay *(Personal Project)*

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

- **Developed a logistic regression model** to classify individuals at risk of heart disease.
- **Analyzed feature importance and correlations** using heatmaps to select the most impactful predictors.
- **Achieved classification accuracy of 85%** with classification report visualization to assess performance.
- **Conducted data visualization and statistical analysis** to validate model insights.

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]