Aaditya Srivastava

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LinkedIn Profile | GitHub Profile | LeetCode Profile

Education

•Bachelor of Technology in Computer Science and Engineering *2022-26*
Vellore Institute of Technology, Bhopal CGPA: 8.35

•City Montessori School,Rajendra Nagar-I *Lucknow,Uttar Pradesh*
XII(Senoir Secondary) 2021-2022

•City Montessori School,Rajendra Nagar-I *Lucknow,Uttar Pradesh*
X(Secondary) 2021-2022

Projects

•House Price Prediction Website

Developed a machine learning-based web application to predict real estate prices using a linear regression model..

- Built and trained the model using the Bangalore Home Prices dataset with data preprocessing, outlier removal, feature engineering, dimensionality reduction, and hyperparameter tuning using GridSearchCV and K-Fold Cross Validation.
- Created a Python Flask backend to serve the trained model via HTTP API.
- Designed a responsive frontend using HTML, CSS, and JavaScript that interacts with the Flask server to provide real-time price predictions.
- Technologies Used: Python, scikit-learn, Flask, HTML, CSS, JavaScript, Pandas, NumPy

•Employee Management System

Designed and developed a desktop-based application to streamline employee data management for organizations.

- Implemented key features to add, update, view, and delete employee records, enabling efficient HR operations.
- Built a user-friendly graphical interface using Java Swing and AWT for seamless interaction.
- Integrated MySQL database to store and manage employee information with CRUD operations.
- Ensured data consistency and validation across user input fields and database transactions.
- Technologies Used: Core Java (Swing & AWT), MySQL

•Stock Market Prediction

Developed a machine learning-based system to predict the NIFTY50 stock market index using historical data and model backtesting.

- Downloaded historical stock data using the `yfinance` package.
- Built an initial ML model using scikit-learn and evaluated its baseline performance.
- Implemented a backtesting engine to more accurately measure model prediction accuracy.
- Improved model performance through tuning and validation using Jupyter Notebook.
- File Used: `market_prediction.ipynb` containing complete implementation and results.
- Technologies Used: Python, scikit-learn, pandas, yfinance, JupyterLab

Achievements

CodeChef Rating: 1270 **Highest Rating:** 1270
Global Rank - 8988 in Starters 174 (Rated)

LeetCode Rating: 1358 **Highest Rating:** 1490
Global Rank - 1807 in LeetCode Biweekly Contest 133, out of 25,500+ participants

Technical Skills and Interests

Languages:Java,Python.MySql ,HTML,CSS
Web Dev Tools:Github,Git
Cloud/Databases:Relational Database(mySql)
Relevent Coursework: Machine Learing,Data Structures & Algorithms,Object Oriented Programming
Areas of Interest:,Problem Solving.
Soft Skills: Communication,Self-learning, Presentation, Adaptability