Kavin Ragav

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Career Objective

Aspiring computer science engineer specializing in machine learning and data analysis, proficient in Python, R, and data visualization tools. Experienced in data preprocessing, feature engineering, and predictive modeling. Adept at solving real-world problems, collaborating in teams, and independently managing responsibilities. Seeking a data science role to contribute technical expertise and drive innovative solutions while advancing my skills.

Education

Bachelor of Technology in Computer Science and Engineering **June. 2022 – July. 2026**
Amrita Vishwa Vidyapeetham *CGPA 8.98*

Higher Secondary Education **July. 2020 – June. 2022**
Sainik School Amaravathinagar *78 Percentage*

Secondary Education **July. 2015 – June. 2020**
Sainik School Amaravathinagar *85 Percentage*

Technical Skills

Languages and Databases: Python, SQL, Java, C, C++, Pandas, Numpy, TensorFlow
Developer Tools: VS Code, Eclipse, Google Colab, Jupyter Notebook
Other Skills: Communication, Teamwork, Adaptability

Technical Interests

- Data Science
- Machine Learning
- Data Analytics
- Neural Networks

Projects

Stock Market Price Prediction **Aug 2024 – Sep 2024**

- Details/Objective: Developed models to predict stock prices using historical data (Open, High, Low, Volume) to forecast Close prices, leveraging both machine learning and deep learning techniques.
- Tools/Techniques Used: Python, TensorFlow, Scikit-Learn, Seaborn.
- Role:
  - Built and trained Long Short-Term Memory networks for time-series forecasting, achieving optimal performance for time-dependent data.
  - Compared various models (K-Nearest Neighbors, Random Forest, Linear Regression, LSTM) using evaluation metrics .
- Outcome: Demonstrated accurate predictions and effective model comparison, highlighting LSTM as the best-performing technique.

Fake News Detector **Oct 2024 – Nov 2024**

- Details/Objective: Built a web application to identify fake news articles using machine learning techniques and provide additional functionalities for content analysis.
- Tools/Techniques Used: Python, Flask, Passive Aggressive Classifier, Natural Language Processing (NLP).
- Role:
  - Developed a fake news detection model using the Passive Aggressive Classifier to classify news as real or fake.
  - Integrated the machine learning model with a user-friendly frontend using Flask.
  - Added additional functionalities, including a sentiment analyzer and plagiarism checker, to enhance the application.
- Outcome: Successfully deployed a functional app that accurately detects fake news and provides auxiliary analysis tools.

Achievements, Awards, Scholarships, Honours, Contributions

- **A Comparative Analysis of Machine Learning and Deep Learning Models on Predicting Stock Market Close Prices** Presented and authored the research paper at **IEEE Conference**
  Amrita Vishwa Vidyapeetham (2024–2025)
- **Best in Culturals Award** - Inter House Culturals
  Sainik School Amaravathinagar (2015–2020)

Extra Curricular Activities

- Member, IEEE Amrita Vishwa Vidyapeetham, Student Branch
  Actively participated and assisted the IEEE team in organizing the IEEE Xtreme Programming Competition and workshops.
- B Certificate Holder, National Cadet Corps (NCC)
  Part of the Republic Day and Independence Day parades. Contributed to the Swachh Bharat Abhiyaan by participating in weekly Shramdhaans conducted across campus areas.

Certificates

- NPTEL Elite Badge - Foundations of Data Science
- IIRS Certificate of Merit - Remote Sensing and Digital Image Analysis

Language Proficiency

English (Professional) Tamil (Native) Telugu (Conversational)