

KEERTHINATHAN A

+91 7397242476 [✉ keerthinathan2004@gmail.com](mailto:keerthinathan2004@gmail.com) [🌐 LinkedIn](#) [🐙 Github](#)

Education

Amrita Vishwa Vidyapeetham

Bachelor's degree in Computer Science and Engineering, Specialization in Artificial Intelligence

2021 - 2025

8.37/10 CGPA

Seventh Day Adventist Matric Higher Secondary School

Higher Secondary Examination

2021

89%

Projects

Sticker Recommendation using Sentimental Analysis

Nov 2024

- Developed a comprehensive multimodal sentiment analysis framework for English and Tamil, integrating dialogue, sticker image, and caption analysis to enhance sticker recommendations.
- Leveraged customized **CNN** and **BERT** models for each language, outperforming baseline methods and demonstrating effective multitask learning.
- Advanced sentiment analysis techniques to enhance user experiences and inclusivity, with F1-scores ranging from 17% to 71% across six classified emotions.

FairCart:E-Commerce Platform

Sept 2024

- Developed a full-stack e-commerce platform using **React.js**, **Node.js**, **Express.js**, **MongoDB** ensuring a seamless shopping experience .
- Designed and developed a unique review system that allows only one review per user per product, preventing spam and ensuring authenticity.
- Implemented a secure user authentication system using JWT to protect user data and enhance security.

Stock Market Prediction Using LSTM and GRU.

May 2023

- Utilized the Yahoo Finance dataset to gather historical stock market data dating back to the 1970s, enabling extensive analysis of stock price trends spanning multiple decades.
- Applied **LSTM and GRU algorithms** to implement 2 robust models for forecasting Bitcoin's future value based on historical closing stock prices.
- Compared two models, revealing the LSTM model exhibited a Mean Absolute Error (MAE) percentage of 21%, while the GRU model performed better with a lower MAE percentage of 18%.

Technical Skills

Languages: Java, Python, Javascript

Databases: MySQL, MongoDB

Technical Tools: ROS, Matlab, GitHub, VS Code, Arduino, Raspberry Pi

Libraries: Tensorflow, Numpy, Pandas, Scikit-learn, PySpark

Certifications

- Achieved the Assessment Skill Test on **Hackerrank**
- Passed the Java Assessment Skill Test on **HackerRank**
- Successfully completed the Python for Data Science, AI, and Development course offered by IBM on **Coursera**
- Completed the Java Explorer in **Oracle**

Publications

- Authored an article in the May 2024 issue of the journal Knowledge and Information Systems, titled "**An Analysis of Large Language Models: Their Impact and Potential Applications**".
- Authored and published a paper titled '**Deep Learning for Enhanced Detection and Characterization of Pulmonary Nodules**' in the 2024 4th International Conference on Intelligent Technologies (CONIT).