

YUVAN SHANKAR S

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Profile

BE Computer Science Engineering student specializing in Artificial Intelligence and Machine Learning, with foundational programming skills and a keen interest in developing innovative AI solutions. Eager to contribute to collaborative projects and continually expanding technical knowledge.

Education

BE CSE (Artificial Intelligence and Machine Learning)
Chennai Institute of Technology, Chennai, Tamil Nadu

CGPA: 8.36
2023-2027

Projects

Meta Closet | ReactJS + Vite, Fast API, MongoDB, Python, Pytorch, VITON HD, OpenPose

- Developed a virtual wardrobe browser extension that allows users to try on clothing virtually from various e-commerce websites.
- Implemented backend in Flask with MongoDB for efficient image storage, supporting seamless integration of e-commerce platforms.
- Designed a responsive and user-friendly interface with React.js, delivering a smooth and interactive virtual dressing room experience.

Intrusion Detection System | Python, Pytorch, Sci-kit learn, CNN-LSTM, Random Forest, XGBoost

- Built an Intrusion Detection System (IDS) to classify network traffic anomalies and cyber threats using machine learning.
- Implemented a hybrid model with CNN-LSTM, Random Forest, and XGBoost, leveraging ensemble learning for enhanced accuracy.
- Enhanced detection efficiency through feature engineering, handling class imbalance, and fine-tuning hyperparameter.

Stock Market Analysis | Python, Streamlit, Plotly, TensorFlow, Sci-kit learn, LSTM, Linear Regression, Random Forest

- Designed and developed a Stock Market Analysis web app using Python and Streamlit, integrated real-time stock data.
- Implemented Machine Learning models (LSTM, Linear Regression, and Random Forest) for stock price forecasting.
- Designed interactive visualizations using Streamlit & Plotly, enabling users to analyze stock trends and model comparisons.

Experience

Research & Development

- **Self-Directed Research** — Chennai Institute of Technology — 2024 (November-December)
- Developed an Intrusion Detection System (IDS) using a stacked ensemble approach (CNN-LSTM, Random Forest, XGBoost).

Certifications

- Deep Learning - NPTEL
- Database Management System - NPTEL
- Data Structures - Coursera
- Algorithmic Toolbox - Coursera
- Algorithms on Graphs - Coursera
- Introduction to Cyber Security - CISCO NETACAD
- Cyber Security Essentials - CISCO NETACAD
- Google-AI ML Virtual Internship - Eduskills

Skills

- **Programming Languages:** JAVA, PYTHON, C++, JavaScript
- **Data Science:** NumPy, Pandas, SciPy
- **Databases:** MySQL, MongoDB
- **ML/DL Frameworks:** PyTorch, TensorFlow, Scikit-learn
- **Web Development:** HTML, CSS, JavaScript, React
- **Tools & OS:** Git, Linux (Bash)

Coding Profile

LeetCode – Max Rating: **1611** | Problems Solved: **350+** — Top **21.41%** | Highest Rank: **2546** in contest **436**
CodeChef – Max Rating: **1412** | Position: **2-Star** | Highest Rank: **745** in Contest **170**