SIRAPARAPU SAI SATYA PAVAN CHARAN

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[Linkedin](#) | [Github](#) | [Portfolio](#)

Education

IIIT KOTTAYAM	Aug 2023 - April 2027
B.E. in Computer Science and Engineering	**CGPA: 8.33/10**

Relevant coursework: Web-Development, Full stack web-dev, Operating systems, Databases, Design and analysis of algorithm, Data structures, Discrete Maths, Machine learning, App dev, Statistics

Sri Chaitanya Educational Institutions	June 2021 - May 2023
APBIE Board	**Percentage: 98%**
JEE MAINS	**96.6 Percentile**

Technical Skills

Languages: C/C++, Java Advanced, Python, JavaScript, SQL
Web-Development: HTML, CSS, React, Nodejs, Express, Django, Flask
Frameworks: Numpy, Pandas, Matplotlib, Tensorflow, Swing GUI, Gradle, Maven
Tools: VS Code, Jupiter, Kaggle, Github, Linux

Projects

Fake News Detector [link](#)   **Present**
◦ Built a **Fake News Detection System** using **Natural Language Processing (NLP)** and **Machine Learning**, leveraging **TF-IDF vectorization** and a **Support Vector Machine (SVM) classifier** for text classification.
◦ Preprocessed textual data using **tokenization, lemmatization, and stopword removal** to improve model accuracy. Trained and fine-tuned the classifier using **Scikit-Learn**, achieving reliable classification of real vs. fake news.
◦ Developed an **interactive web app** using **Streamlit**, integrating a trained ML model to allow real-time fake news detection based on user input. Optimized the app for efficient text processing and UI responsiveness.

IPL Win Predictor [link](#)   **January 2025**
◦ **Machine Learning Model Development:** Built an IPL match win probability prediction model using Random Forest, trained on historical match data with features like team names, host city, score, overs, and wickets.
◦ **Full-Stack Implementation:** Developed an interactive frontend using Streamlit, integrated with a trained ML model to provide real-time win probability predictions based on live match inputs
◦ **Deployment & Optimization:** Deployed the application on Streamlit Cloud/Heroku, optimized model performance with feature engineering, and improved accuracy using data preprocessing techniques.

Restaurant Management System Web App [link](#)   **Sept - Oct 2024**
◦ Developed a full-stack restaurant management system using HTML, CSS, React, Node.js, and SQL, management of orders, table reservations, and employee tasks, with dynamic user and employee authentication.
◦ Implemented a responsive web interface featuring user-friendly components for real-time order tracking, cart management, and reservation scheduling, integrated with a robust SQL database.

Positions and Responsibilities

Event Organiser- Synapse *[Apoorv 2024]*
Organised Synapse under Apoorv, Planned and organized Synapse, a event at the annual techno cultural Fest Apoorv, attended by over 200 participants.