Sajja Balaji Sai Surya

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Introduction

Hi, I'm Sajja Balaji Sai Surya, a CSE undergrad at IIIT Sri City with strong skills in Python, C++, and full-stack development. I'm Passionate about creating seamless websites with HTML, CSS, and JavaScript, and proficient in MERN Stack development.

Currently exploring the fields of Web Development and Machine Learning https://github.com/bala-ji1045.

Education

Indian Institute of Information Technology, Sricity *Sept 2023 – 2027*
Btech, Computer Science and Engineering

- GPA: 8.9
- **Coursework:** Data Structures and Algorithms, Machine Learning, Full Stack Development, Artificial Intelligence, Database Management, Operating Systems, Computer Networking

Experience

Data Analyst *ML Models,python,pandas*
Skillified Mentor *June 2025 – July 2025*

- Analysed temperature data sets effectively
- Developed and implemented statistical and machine learning models (e.g., linear regression, ARIMA, XG-Boost) to predict short- and long-term temperature variations with high accuracy.
- Visualized historical trends, anomalies, and predictive outcomes using tools such as Tableau, Power BI, and Matplotlib, enabling better climate-related decision-making.

Management-tech support Intern *Ms Excel,Word*
Sricity Arts Department *Aug 2024 – Present*

- Maintain and manage student records using Microsoft Excel with accuracy and attention to detail
- Ensure timely data entry, updates, and organization of academic and personal information
- Generate reports, summaries, and spreadsheets for administrative and academic purposes
- Troubleshoot common technical problems and coordinate with IT teams when necessary

Projects

Movie-Match *Movie-Match Repo*

- Built a movie recommendation system using Django as the backend framework with a responsive frontend.
- Implemented real-time movie suggestions and autocomplete search functionality, enhancing user interaction and personalization.
- Processed and managed data using Pandas, PyArrow, and FastParquet for efficient handling of a top 2.5K IMDB movie dataset stored in Parquet format.
- Tools Used: HTML, CSS, JavaScript, and integrated libraries like Bootstrap, jQuery, jupiter Notebook and recommondation ML algorithms

AttendSafe – School Management System *AttenSafe Repo*

- ◦ Developed a comprehensive web-based school management platform enabling seamless communication and task management for students, teachers, parents, and administrators
- ◦ Implemented role-specific features including attendance tracking, academic performance dashboards, leave management, resource sharing, event updates, and real-time notifications
- Tools Used: HTML, CSS, JavaScript, React/Angular, Node.js/Express or Django/Flask, MySQL/PostgreSQL,

Chart.js/D3.js, PayPal API, AWS/Azure/Google Cloud

Networx-Event Networking Recommendation Platform

- ◦ Built a smart networking platform to enhance participant engagement at events by recommending connections based on mutual interests and historical interactions ◦ Implemented a hybrid recommendation engine combining content-based filtering (TF-IDF, cosine similarity) and collaborative filtering (matrix factorization using SVD) for personalized user suggestions ◦ Enabled real-time profile matching, interest tagging, and recommendation updates during live events
- Tools Used: Python, Pandas, Scikit-learn, NumPy, Flask/FastAPI, HTML/CSS, JavaScript, SQLite/PostgreSQL, TF-IDF, SVD, Cosine Similarity

Technologies

Languages: Python, C++, C, JavaScript, SQL, HTML, CSS

Technologies: Django, Flask, FastAPI, Node.js, Express, React, Angular, Pandas, NumPy, Scikit-learn, Bootstrap, Chart.js, D3.js, MySQL, PostgreSQL, SQLite

Tools: Git/GitHub, Jupyter Notebook, PayPal API, TF-IDF, SVD, Cosine Similarity, Visual Studio Code