

Sujan S

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EDUCATION

PSG College of Technology, Coimbatore <i>M.Sc Integrated Data Science</i>	7.02 CGPA 2022 - 2027
Sri Chaitanya Educational Institutes, Coimbatore <i>XII (Higher Secondary, CBSE)</i>	90.20 2020 - 2022
VAV International School, Udumalpet <i>X (Senior Secondary, CBSE)</i>	91.40 2019 - 2020

TECHNICAL SKILLS

Languages: C++, Python, SQL
Frameworks & Tools: Power BI, Gephi, Excel, Figma, Git, VS Code
Libraries & Packages: Pandas, Streamlit, Scikit-learn, TensorFlow, Networkx

PROJECTS

Stellar Sorter | *Python*

- Designed and implemented a machine learning pipeline to classify celestial objects and predicts galaxy redshifts using **SDSS spectral data** and **astroML**.
- Data handling includes outlier removal, **SMOTE** for class imbalance, and **PCA** for feature extraction.
- Machine learning models applied include **GMM-Bayes**, **SVM**, **Random Forest**, and **Linear Regression**.

Churn Forecast | *Python*

- The project predicts customer churn for a telecom company using **machine learning** techniques.
- Developed, trained, and optimized models like **Logistic Regression**, **Random Forest**, and **SVM** for performance.
- The goal is to develop a robust predictive model and provide insights for improved churn management.

ChatSphere | *JavaScript, CSS, HTML*

- Engineered a dynamic chat application using **ReactJS** and **ChatEngine.io** for real-time communication.
- Implemented secure user authentication, enabling individual chats and group chat rooms.
- Enhanced user experience with a responsive and intuitive interface.

Personal AI Communication Assistant | *Python, JavaScript(Node.js), SQLite*

- Built a Personal AI Communication Assistant integrating Gmail, Slack, and WhatsApp automation.
- Implemented NLP-based summarization, reducing email processing time by 50%, smart replies, and task extraction using **Google Gemini AI**.
- Developed an AI-powered Slack automation system, daily digest generation, and WhatsApp chatbot responses using **Selenium** and **SQLite**.

Movie Review Website | *JavaScript, PostgreSQL, Express.js, React, HTML, CSS*

- Developed a full-stack **PERN** movie review app with 95% accurate sentiment analysis using **PostgreSQL**, **Express.js**, **React**, and **Node.js**.
- Constructed the frontend with **Vite**, **React**, and **Tailwind CSS**, and the backend with **Express.js**.
- Integrated web scraping with **Cheerio.js** and designed **RESTful APIs** for authentication and database management.

EXTRACURRICULAR ACTIVITIES

- Led as **Class Representative**, advocating for peers and organizing academic initiatives.
- A skilled **Painter** with a strong creative vision and dedication to artistic excellence.
- Active member of **Radio Hub**, contributing to content curation and technical management.
- Attended a **Web Development** workshop at Petrichor, the techno-cultural fest of IIT Palakkad.