

Sai Yarlagadda

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SKILLS

Technical Skills: Java, C, C#, Python, JavaScript, MySQL, GitHub, Power BI, Firebase, MS 365, Power Apps
Web Development: HTML, CSS, SAS, MERN (React Js, Node Js, Express, Mongo DB) Stack, C# Web API's.
Testing Tools: Mocha+Chai, Jest, Cypress.
Soft Skills: Detail-oriented, Organized, Problem-solving, Collaborative and Communication proficiency.

EXPERIENCE

Software Development Intern | *Medical Informatics Engineering* May 2024 – Present

- Developing an Neural Network with character embeddings, processing **60-100k patient records** to enhance matching accuracy by **50%**.
- Validating the model with combined embeddings, improving data consistency and decision-making by **30%**.

Data Scientist-Corporate Partners | *3Rivers Federal Credit Union* January 2024 – May 2024

- Conducted analysis on 3Rivers customer transaction data, comprising **132 million rows**, and conducted Exploratory Data Analysis (EDA) to derive insights.
- Exploited clustering techniques to segment **127,000 3Rivers customers**, producing statistical reports on customer trends.

Research Assistant | *Purdue University* September 2023 – Present

- Pioneering as a Research Assistant for **Brain Computer Interface**.
- Spearheaded a cutting-edge BCI Laboratory, projected to benefit 500+ Students, setting a new standard for future generations on campus.

System Engineer | *Tata Consultancy Services* May 2022 – December 2022

- Engaged in a productive discussion and successfully persuaded implementation of a **Machine Learning Model** for patient record screening, ensuring timely detection of abnormal records and immediate alerts.
- Integrated **GE Centricity** and **Epic Systems**, resulting in a **30% reduction** in manual data entry for electronic health record (EHR) management.

Machine Learning Intern | *Eamvey* June 2021 – August 2021

- Developed a diabetics prediction system with **Python**, **scikit-learn**, and **TensorFlow**, **fulfilling 85% accuracy** employ Logistic Regression, Random Forest, and Gradient Boosting models.
- Curated a comprehensive dataset including patient profiles, medical histories, and biometric measurements for robust model training and validation.

EDUCATION

Purdue University | *Master's in Computer Science.* GPA: **3.67/4.0** December 2024

R.V.R & J.C | *Bachelor's in Information Technology.* CGPA: **7.78/10** July 2022

PROJECTS

- ARTSTHOP: An online platform empowering artist to showcase and sell work.
- Fort Wayne Bajan Society Website: A custom-designed event management platform for bhajan society.
- Fake News Detection using ML: Utilized Artificial Neural Networks to get 99.84% accuracy.
- Detection of depression related posts in reddit: (LIWC+LDA+Bigram+SVM) achieved accuracy of 90%.
- IOT-Agriculture: Utilized IOT to make a miniature version of IoT for in Agriculture and other area.
- Limb Detection EEG Data: Detection of Limb movement using EEG Data.