

Sai Pavithra Adoni

🌐 <https://saipavithraadoni.github.io/Portfolio/>

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Tech-savvy **Full Stack Web Developer** proficient in **React, Spring Boot, Node.js**, and **PostgreSQL**, with hands-on experience in both **front end and back-end development**. Proven ability to design and build **user-centric, accessible web applications**, including a **UKRI-funded progressive web app** delivering **AI-generated BSL videos** for deaf users. Skilled in **UI/UX design, API integration, error handling**, and **performance optimization**. Experienced in using tools like **Figma** for wireframing and user flow.

EXPERIENCE

Full Stack Web Developer | Silence Speaks

Oct 2024 - Present

- Designed, Developed and deployed a web app from scratch using **React, Spring Boot (Java), PostgreSQL**, and **Node.js** for a UKRI-funded accessibility project, enabling playback of AI-generated BSL videos for deaf users in transport and hospitality.
- Accounted for end-to-end front-end and back-end development, API integration, error handling, and UI/UX design
- Applied advanced skills in debugging, troubleshooting, state management, and building responsive, user-centric interfaces.
- Mentored and supported 3 newly hired deaf developers during onboarding and project integration.

Data Science Intern | Silence Speaks

Aug 2024 – Oct 2024

- Designed UI/UX and user flows in **Figma** for a web app tailored to deaf users, focusing on accessibility and usability.
- Planned Azure architecture using Blob Storage, SQL Database, and Azure AD, and defined APIs for app integration.
- Researched Azure services to align features with accessibility, performance, and cost-efficiency goals.

UI Developer | FYS (Find Your Support)

Nov 2024 – Jan 2025

- Converted static PSD designs into responsive, pixel-perfect HTML and CSS layouts, ensuring cross-browser compatibility, with precise attention to spacing, typography, and user interface behavior.

EDUCATION

Master of Science in Data Science | Middlesex University | London, UK

January 2023 – January 2024

Distinction

Bachelor's in technology in Information Technology | JNTUA (Sree Vidyanikethan Engineering College)

July 2018 – July 2022

8.49/10

SKILLS

- Web Development:** React, React Native, HTML5, CSS, Bootstrap, Figma, UI/UX Design
- Backend, Frameworks and Databases:** Spring Boot, Node.js, MySQL, PostgreSQL
- Programming & Development Tools:** Python, Java, R, C, C++, TypeScript, JavaScript, GitHub, Android Studio, VS Code
- Data Science and Machine Learning:** Scikit-learn, TensorFlow, Tableau, Altair, Matplotlib, Seaborn, Google Charts
- Big Data & Cloud:** Hadoop, Spark, Hive, MongoDB, OpenStack, AWS, Microsoft Azure

Other Skills: Version Control (Git & GitHub), API Integration, Responsive design, Data Ethics & Security, technical documentation, Collaboration, Communication, Leadership, Attention to Detail, Teamwork, Quick Thinking, and a Strong Willingness to Learn.

PROJECTS

- ANABEL 2.0: An Advanced Activity Monitoring System for Dementia in Ambient Assisted Living with Enhanced User Interface and Activity Monitoring Features:** Developed a Dementia monitoring website enabling continuous activity tracking, behavior detection, and routine reminders for individuals with dementia and their caregivers.
- Visual Analysis on Water Quality:** Visual analysis to gain insights on trends, patterns, and relationship between water quality parameters and site type, season, sampling location in different water bodies and over time
- Comparative study of recommendation algorithms on yelp dataset:** A comparative analysis of machine learning models, for predicting restaurant ratings using the Yelp dataset.
- Face Edge Detection using MATLAB:** Isolating the face from the background, followed by evaluating various edge detection techniques, leading to the development of a novel algorithm combining HSV color space and Support Vector Machine (SVM) for improved accuracy in face edge detection.
- IoT Enabled Prediction of Diabetic-Cardio Disease through Fog Computing:** A Fog computing technology-based webpage that manages and predicts diabetic and cardiovascular disease.

Additional Projects:

- Screen Time Data Analysis** – Analysed screen time usage across various age groups and occupations.
- Traffic Sign Detection** – Implemented a traffic sign recognition system using YOLOv5 and PyTorch.
- VR Mirror Therapy for Post-Stroke Patients** – Conceptual seminar presentation
- C++ Movie Rating App** – CLI-based rating and review system
- Bookstore Website** – Developed using HTML and CSS

Interests: I also enjoy designing clothes, gardening, photography, attending tech meetups, learning new languages.