

Manush Prajwal

📍 Bangalore ✉ manushprajwal1@gmail.com ☎ 9844775528 📁 Portfolio in LinkedIn 🐙 GitHub

Professional Summary

Computer Science undergraduate with 2+ years of experience in full-stack development and applied research. Delivered 10+ real-world projects and authored 5+ research papers, including a pressure-sensing system for diabetes detection using ESP32 and machine learning. Skilled in React, Next.js, Firebase, and Python, with a focus on rapid prototyping, technical innovation, and cross-functional collaboration in fast-paced environments.

Education

BE	Computer Science and Engineering, The Oxford College of Engineering	Sept 2023 – Present
PUC	Alvas PU College, Moodubidri	2020 – 2022

Experience

Freelance , Full Stack Developer	May 2023 – Present Live
<ul style="list-style-type: none">• The Hawk Fit Hub (Next.Js) Developed a visually engaging and mobile-friendly gym website with real-time class booking. Increased traffic 3x and membership signups by 45%.	

Publications

Diabetes Mellitus Diagnosis using Optical Ring Resonators	Jan 2024 IEEE Xplore
<ul style="list-style-type: none">• IEEE INDIACom 2024 – Developed a 90%-accurate, non-invasive detection model reducing diagnosis time by 50%.	

Projects

Dynamic AI-Driven Load Balancing for Efficient Web Server Resource Allocation	github.com/repo
<ul style="list-style-type: none">• Designed a hybrid Q-Learning + Random Forest-based system to dynamically distribute cloud server loads.• Problem Solved: Improved resource allocation accuracy to 91.7%, optimizing cloud performance during high traffic spikes.	
A Neural Network-Based Framework for Diabetes Prediction from Foot Pressure	github.com/repo
<ul style="list-style-type: none">• Built a CNN-MLP model to predict diabetes from foot pressure data and Pressure sensor embedded insoles.• Problem Solved: Enabled non-invasive screening by achieving 89% prediction accuracy in identifying abnormal foot pressure distributions linked to diabetic risk.	
Student Hub – Unified Platform for Academic Engagement	StudentHub.com
<ul style="list-style-type: none">• Developed a centralized web platform for Students for Jobs, Issue reporting, announcements, and resource access.• Problem Solved: Streamlined communication across departments, serving 1300+ students Daily and reducing resource discovery time by over 85%.	
Advanced Intrusion Detection System Using Deep Learning	github.com/repo
<ul style="list-style-type: none">• Implemented a deep learning-based IDS combining signature-based and anomaly detection techniques.• Problem Solved: Predicted 89% of Man in the Middle Attacks with <0.5% false positives in network simulations..	

Technologies

Languages: Python, C, C++, JavaScript, SQL, TypeScript.

Technologies: React.Js, Next.Js, Node.Js, Express.Js, Nest.Js, Docker, Git