

# Manush Prajwal

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## 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

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

## Experience

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

## Publications

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

## Projects

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

## Skills

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

**Frameworks:** React.Js, Next.Js, Node.Js, Express.Js, Nest.Js, Docker, Git