KOSARI MADHUSUDHAN

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PROFILE

Full-stack and ML engineer-in-training focused on building scalable web applications and ML-driven systems. Experienced with REST APIs, ML pipelines, and frontend development. Currently learning **Flutter** to build cross-platform mobile applications.

EDUCATION

Bachelor of Technology, Computer Science & Engineering   *2023 – Present*
Padmasri Dr. B.V. Raju Institute of Technology, Medak   CGPA: 8.9/10 (Expected 2027)
Intermediate   *2021 – 2023*
Alphores Junior College, Karimnagar   97.5%

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, JavaScript, Dart
- **Frontend:** React.js, HTML5, CSS3, Responsive UI
- **Mobile:** Flutter (In progress — cross-platform app development)
- **Backend:** Node.js, Flask, REST APIs
- **ML & Data:** scikit-learn, Pandas, NumPy, Model Deployment
- **Databases:** MySQL; PDF Processing (pdfplumber, pypdf)
- **Tools:** Git, GitHub, Docker, CI/CD, VS Code, Overleaf

SELECTED PROJECTS

PDF Intelligence Engine — Persona-Aware Summarizer   Jun 2025 – Jul 2025
ML-based PDF reader with **91%** document structure extraction accuracy; role-specific summarization (Student/Researcher/Executive). Built using Flask, React.js, Docker, and deployed REST backend.

COPD Prediction Web App   Nov 2024 – May 2025
Ensemble ML models achieving **98%** accuracy for COPD risk prediction; integrated real-time risk assessment and medical suggestions using Flask, scikit-learn, and HTML/CSS/JS.

FarmSyncro — Contract Farming Platform   Aug 2024 – Oct 2024
Led frontend using React.js; built workflows for agreements and secure payments. Selected for **Smart India Hackathon — Level 2**.

Interactive DSA Learning Tool   Oct 2024 – Dec 2024
Web-based interactive tool for learning DSA with quizzes, code execution, and progress tracking using HTML5/CSS3/JavaScript.

PUBLICATIONS & PRESENTATIONS

- "Enhancing COPD Prediction Using Machine Learning: A New Approach to Early Detection and Intervention" — Presented at the **International Conference on Software, Systems and Information Technology (SSSITCON-2025)**, organized by the Department of Computer Science Engineering (Cyber Security), Sri Siddhartha Institute of Technology, Tumakuru, in association with IEEE Bengaluru Section, October 2025.

ACHIEVEMENTS & LEADERSHIP

- **Adobe PDF Hackathon 2025**: National finalist — AI-powered document understanding.
- **Smart India Hackathon 2024**: Level 2 qualifier — frontend lead.
- Led 3+ development teams delivering MVPs under rapid timelines.

CERTIFICATIONS

- Cisco Programming Essentials — C++ & Python
- LinkedIn Learning — C Programming Basics

INTERESTS

Full-Stack Development | Mobile App Development | Healthcare Technology | Open Source | Competitive Programming