

KOSARI MADHUSUDHAN

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Education

Bachelor of Technology in Computer Science and Engineering	<i>2023 – Present</i>
Padmasri Dr. B.V. Raju Institute of Technology, Medak, India	CGPA: 9.03/10, Expected: 2027
Intermediate	<i>2021 – 2023</i>
Alphores Junior College, Karimnagar	97.5%

Technical Skills

- **Languages:** Python, C++, Java, JavaScript, HTML5, CSS3
- **Frontend:** React.js, HTML/CSS, JavaScript, Responsive Design
- **Backend:** Node.js, Flask, REST API
- **Machine Learning:** Scikit-learn, Pandas, NumPy, Model Deployment, Data Preprocessing
- **Databases:** MySQL, PDF Processing (pdfplumber, pypdf)
- **DevOps & Tools:** Git, GitHub, Docker, CI/CD, VS Code, Overleaf

Projects

PDF Intelligence Engine: Persona-Aware Summarizer for Role-Specific Reading *Jun 25 - Jul 25*

- Built an ML-based PDF reader with **91%+ accuracy** in document structure extraction and content categorization.
- Enabled user-specific summarization (Student/Researcher/Executive) using **Flask, React.js**, and **Docker**.
- Deployed RESTful backend with intelligent role detection and content tailoring.

COPD Prediction Web Application

Nov 24 - May 25

- Developed a machine learning model using ensemble techniques achieving **98% prediction accuracy**.
- Integrated real-time risk assessment and medical suggestions using **Flask, Scikit-learn, HTML/CSS**, and **JavaScript**.

FarmSyncro – Contract Farming Platform

Aug 24 - Oct 24

- Led frontend development using **React.js** to connect farmers with buyers for transparent contract-based farming.
- Designed agreement workflows and secure payment channels, selected for **Smart India Hackathon Level 2**.

Interactive Learning Tool for Data Structures and Algorithms

Oct 24 - Dec 24

- Created a visual, interactive platform for learning DSA through quizzes, progress tracking, and live code execution.
- Built with **HTML5, CSS3**, and **JavaScript**; used dynamic DOM updates for seamless UX.

Achievements & Leadership

- **Adobe PDF Hackathon 2025:** National finalist for AI-powered document understanding solution
- **Smart India Hackathon 2024:** Level 2 qualifier, frontend lead for agricultural innovation
- **Project Leadership:** Led 3+ development teams, delivered MVPs within tight deadlines
- **Academic Excellence:** Consistent 9+ CGPA, top 10% in department

Certifications

- Cisco Programming Essentials in C++ & Python
- LinkedIn Learning: C Programming Basics

Interests

- AI/ML for Document Processing, Full-Stack Web Development, Healthcare Technology
- Open Source Contributions, Competitive Programming, Research Publications