

# Akshita Reddy Banala

B.E Honors Computer Science and Engineering | +91 8328099790 | akshitab.be26@uceou.edu | [GitHub](#) | [LinkedIn](#)

## PROFESSIONAL SUMMARY

Results-driven Computer Science Engineering student with hands-on experience in full-stack development, distributed systems, and machine learning applications. Proven track record building scalable web and mobile applications serving 1000+ users. Strong foundation in Unix/Linux environments, data structures, and system design. Experienced in Python, Java, and JavaScript with expertise in developing production-ready software solutions. Demonstrated leadership in agile environments with high ownership of technical projects from conception to deployment.

## TECHNICAL SKILLS

**Languages & Development:** Python, Java, JavaScript, C, HTML5, CSS3, TypeScript

**Systems & Infrastructure:** Unix/Linux, Distributed Systems, TCP/IP, System Architecture, Database Design

**Backend & Databases:** SQL, MongoDB, Firebase, Express.js, Node.js

**Machine Learning & AI:** Deep Learning, Natural Language Processing, Computer Vision, Multi-GPU Training, TensorFlow

**Tools & Frameworks:** Git, GitHub, React, React Native, Streamlit, Figma

**Core Competencies:** Data Structures & Algorithms, Object-Oriented Programming, Information Retrieval, Large-Scale System Design

## EDUCATION

**Bachelor of Engineering (Honors) – Computer Science and Engineering** | CGPA: 8.9

University College of Engineering, Osmania University, Hyderabad | 2022-2026

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Distributed Systems, Database Management Systems, Data Engineering, Software Engineering, Object-Oriented Programming, System Design, Computer Vision, Deep Learning

## PROFESSIONAL EXPERIENCE

**Product Manager & Lead Developer** | ReRoute – Farmhouse Booking Application | Sep 2025 – Present

- Leading end-to-end product development of a React Native mobile application for farmhouse discovery and booking
- Managing cross-functional coordination including requirement gathering, sprint planning, and stakeholder communication
- Architecting scalable backend systems and designing intuitive user experiences for seamless booking workflows
- Driving technical implementation while balancing product strategy and user-centric design decisions

**App Development Intern** | Netherlands Telugu Community | Jan 2025 – Jun 2025

- Developed and maintained a production React Native + TypeScript application with customizable news feeds and user profiles
- Served as Scrum Master, leading Agile sprints and ensuring timely delivery of high-quality features in fast-paced development cycles
- Implemented Git-based version control workflows including branch management, pull requests, and code reviews
- Collaborated with distributed teams to integrate features and maintain code quality standards

**Summer Research Intern – AI & ML** | Center of Excellence, Osmania University | May 2025 – Present

- Engineered a Cross-Modal Fashion Search system enabling text-to-image and image-to-image retrieval using deep learning
- Built interactive Streamlit web application for real-time multimodal search with responsive visualization
- Optimized inference pipeline with GPU acceleration, reducing latency and improving user experience
- Conducted research on information retrieval techniques and similarity search algorithms for large-scale datasets

## TECHNICAL PROJECTS

**Multimodal Sentiment Analysis System**

- Designed and implemented a bimodal deep learning pipeline combining computer vision and NLP to predict sentiment from image and text inputs
- Optimized training performance using multi-GPU distributed computing, reducing training time significantly
- Applied machine learning best practices for model evaluation, hyperparameter tuning, and deployment

**Full-Stack To-Do List Application**

- Developed scalable task management system using MongoDB, Express.js, React, and Node.js (MERN stack)
- Implemented RESTful APIs with full CRUD operations and authentication
- Designed responsive UI with real-time data synchronization and state management

**Memory Tile Matching Game (Web Application)**

- Created browser-based game using vanilla JavaScript, HTML5, and CSS3 with no external dependencies
- Implemented efficient game state management and DOM manipulation for smooth user interactions
- Designed responsive interface with CSS animations and cross-browser compatibility

## ACHIEVEMENTS & CERTIFICATIONS

- **Gold Medal in Data Structures** – Departmental Recognition
- **Deloitte Australia Data Analytics Simulation** (Forage) – Created data dashboards using Tableau for business insights
- **Microsoft Web Development Workshop** – Osmania University

## LEADERSHIP & IMPACT

- **Secretary, Entrepreneurship Cell** – University College of Engineering, Osmania University
- **Executive Member, Design Team** – Google Developer Student Clubs (GDSC), UCEOU
- Organized national technical symposium (INFINITY) at CSE Department with 500+ participants
- Conducted frontend development workshops for 100+ students, teaching modern frameworks and best practices
- Mentored junior students in agile methodologies, collaborative coding, and software engineering principles
- Active contributor in Entrepreneurship Cell, GDSC, Robotics Club, and Sports Club