

Akshita Reddy Banala

B.E. – Computer Science & Engineering

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Professional Summary

Highly adaptable and results-oriented engineer with a proven track record in software development, data engineering, and artificial intelligence. Possess hands-on experience designing and implementing web and mobile applications, building scalable APIs, and developing advanced machine learning and deep learning models. Strong analytical and problem-solving skills, with expertise in the full software development life cycle, data-driven decision making, and collaborative teamwork. Eager to contribute technical, analytical, and leadership capabilities to dynamic projects in software engineering, data analysis, or AI/ML domains.

Core Competencies

- **Programming:** Python, Java, C++, JavaScript, TypeScript, ReactJS, React Native
- **AI & Data Science:** Deep Learning, Machine Learning, Transformers, NLP, Computer Vision, Scikit-Learn, NumPy, Pandas, PyTorch
- **Data Analytics & Data Engineering:** Data Wrangling, Visualization, Exploratory Analysis, ETL Pipelines, SQL, Vector Databases
- **Software Development:** Full-Stack Development, REST APIs, Database Design, Distributed Systems, Microservices
- **Tools & Infrastructure:** GitHub, Git, Firebase, Docker, Embedded Systems, Arduino
- **Agile Methods:** Scrum Master, Sprint Planning, Team Leadership, Cross-functional Collaboration
- **UI/UX & Modeling:** Figma, HTML5, CSS3, 3D Modeling
- **Languages:** English, Hindi, Telugu

Education

B.E. in Computer Science & Engineering

Osmania University (2022–2026) — CGPA: 8.9/10

Higher Secondary

Sri Chaitanya Junior College, Hyderabad (2022) — 98.9%

High School

Rau's High School (2020) — CGPA: 9.8/10

Professional Experience

App Development Intern

Netherlands Telugu Community (Jan 2025 – Present)

- Developed and maintained a scalable mobile app, serving 1,000+ daily users with React Native and TypeScript.
- Engineered a customizable news feed system, implementing advanced filtering, sorting, and bookmarking features.
- Integrated secure SSO authentication and designed user-centric profile management.
- Led Agile ceremonies as Scrum Master, collaborating closely with cross-functional stakeholders.

Technical Projects

Multimodal Sentiment Analysis System

- Built a deep learning pipeline combining BERT and ResNet for sentiment analysis of tweet-image pairs, achieving 80%+ accuracy.
- Implemented distributed training with PyTorch and multi-GPU support, optimizing model performance and scalability.
- Deployed end-to-end ML workflows—from data preprocessing through model deployment—on production infrastructure.

Cross-Modal E-Commerce Search Engine

- Designed a text-to-image retrieval system using shared embedding space for seamless multimodal search.
- Architected distributed search infrastructure, efficiently handling millions of product queries per day.
- Leveraged vector databases and high-performance similarity search to enable real-time results.

Memory Tile Matching Game (Web App)

- Developed a responsive, interactive browser-based game using vanilla JavaScript, HTML5, and CSS3.
- Optimized game state management, ensuring smooth performance across devices.

Arduino-Powered Monocopter (Embedded Project)

- Designed and programmed a single-propeller aerial vehicle, enhancing flight control with 30% improved accuracy.
- Applied IMU sensor fusion and PID controllers for autonomous stabilization.

Leadership & Contributions

- **Event Organizer:** Coordinated a major national technical symposium (500+ participants) at Osmania University.
- **Workshop Leader:** Conducted hands-on sessions on frontend development and cybersecurity for 100+ students.
- **Mentorship:** Guided junior developers in modern frameworks and collaborative coding practices.
- **Active Member:** Participated in GDSC, Robotics Club, and Entrepreneurship Cell, contributing to open-source and hackathon projects.

Certifications

- **Deloitte Australia Data Analytics Job Simulation on Forage - August 2025**
 - Completed a Deloitte job simulation involving data analysis and forensic technology
 - Created a data dashboard using Tableau
 - Used Excel to classify data and draw business conclusions
- **Google Crash Course on Python** — Coursera
- **Using Python to Interact with the OS** — Coursera
- **Microsoft Web Development Workshop** — Osmania University
- **RSA Final Arduino Project** — Embedded Systems

Achievements

- **Gold Medal:** Data Structures & Algorithms, Osmania University
- **Rankings:** Top 0.5% TS EAMCET, Top 2% JEE Mains, Top 10% JEE Advanced
- **Robotics:** 2nd Place, Final Year Project - Single Propeller Monocopter
- **Academic Excellence:** Top performer with 98.9% in Higher Secondary

Interests

- Technical: Software Engineering, Data Science, Artificial Intelligence, Distributed Systems, Computer Networks, Full-Stack Architecture
- Personal: Cricket, Music, Dance, Content Writing, UI/UX Design, 3D Modeling

References

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