

KOTTE PANDURANGA REDDY

Computer Science and Engineering | Data Science & Machine Learning

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Professional Summary

Computer Science and Engineering undergraduate with strong fundamentals in data structures, algorithms, and object-oriented programming. Experienced in software development, debugging, and system integration through two engineering internships and multiple independent projects. Skilled in Python, SQL, and database management, with hands-on exposure to full-stack development and cloud deployment. Strong analytical thinker and adaptable team player, comfortable working in fast-paced, cross-functional engineering teams.

Relevant Coursework

Data Structures and Algorithms, Object-Oriented Programming (OOP), Database Management Systems (DBMS), Software Engineering and Software Development Life Cycle (SDLC).

Technical Skills

- **Computer Science Fundamentals:** Data Structures and Algorithms, Object-Oriented Programming (OOP), Database Management Systems (DBMS), Software Engineering, Software Development Life Cycle (SDLC).
- **Programming Languages:** Python (Advanced), Java, C, JavaScript.
- **Databases:** SQL, PostgreSQL, SQLite.
- **Machine Learning:** Supervised Learning, Classification, Regression, Predictive Modeling, CatBoost, Random Forest, SVM, Logistic Regression, Model Evaluation.
- **Deep Learning and Speech AI:** Encoder-Decoder Architectures, Transformer Models, Automatic Speech Recognition (ASR), Speech to Speech Translation.
- **Web Development:** Flask, REST APIs, API Development, HTML5, CSS, JavaScript.
- **Tools and Platforms:** Git, GitHub, Version Control, Linux, Google Cloud Run, Cloud Fundamentals, Jupyter Notebook, VS Code.
- **Core Competencies:** Debugging and Troubleshooting, Problem Solving, Analytical Thinking, Technical Documentation, Team Collaboration, Adaptability.

Work Experience

AI and Software Engineer Intern | Oscowl AI | *May 2026 – Present*

- Contribute to a real-time speech-processing product as part of the engineering team.
- Focus on the audio synthesis stage of the processing pipeline.
- Collaborate with engineers across the team to debug audio processing workflows.
- Refine workflows to improve output reliability.
- Author internal technical documentation to support cross-team knowledge sharing on speech-synthesis techniques.

Intern | Viswam AI | *May 2026 – Present*

- Lead data collection and preprocessing for a Telugu Automatic Speech Recognition (ASR) model.
- Prepare audio-text training corpora and coordinate with the model training team.
- Guide multiple intern teams on project tasks and priorities.
- Streamline status updates between intern teams and project managers, improving delivery coordination.

Projects

Pulse Predict Agent | Hackathon Project | *December 2025*

- Developed an agentic AI system to help public hospitals predict OP/IP patient flow.
- Deployed the system on Google Cloud Run for scalable, real-time access.
- Designed AI agents for patient inflow prediction and staff allocation recommendations.
- Built agents for medicine and oxygen shortage forecasting and automated night-shift reporting.
- Combined data-driven forecasting with rule-based decision logic to simulate real hospital scenarios.

TaskFlash – Student Time Management Application | Personal Project | *Jul 2025 – Oct 2025*

- Architected a full-stack Flask web app that suggests real-time, 5-to-10-minute micro-tasks to students.

- Built a responsive front end with HTML, CSS, and JavaScript for task input and progress tracking.
- Designed backend estimation algorithms for personalized time-management insights and visual progress data.

Heart Failure Prediction using CatBoost | Personal Project | *May 2025 – Jun 2025*

- Engineered a classification model in Python to predict heart failure risk from clinical parameters.
- Applied EDA, feature scaling, and normalization using Pandas and Scikit-learn.
- Benchmarked Logistic Regression, SVM, and Random Forest against CatBoost.
- Achieved 94% accuracy and a 0.92 F1-score, a 7% improvement over Random Forest.

Education

Bachelor of Technology, Computer Science and Engineering | RGM College of Engineering and Technology
| *Expected Jul 2027*

Pre-University Course | IIIT Srikakulam | *Graduated 2023*

Certifications

- Data Analyst Associate Certification – DataCamp.
- Python for Data Science – IBM.
- Automation Associate Developer – UiPath.
- Cybersecurity Fundamentals – IBM.
- Associate Database Administrator – MongoDB.
- Databases and SQL – Raspberry Pi Foundation.

Hackathons and Achievements

- Participated in the GDG Hyderabad Agentathon, a Guinness World Record setting event for most participants in a single hackathon.
- Gained hands-on exposure to large-scale collaborative AI development and real-world problem solving.

Declaration

I hereby declare that the information provided above is true and accurate to the best of my knowledge and belief.

Place: Nandyal, Andhra Pradesh

Date: 27-07-2026

Kotte Panduranga Reddy