Deekshitha Reddy

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EDUCATION

KL University Hyderabad, *B.Tech in Electronics and Communication (3rd Year)* | Telangana, India
CGPA: 8.9/10 — April 2026

Street Cause Coordinator, Street Cause Hyderabad | Web Development Club Head, Student Activity Centre | Sports Club Member, Sports Committee
Courses: OOPS | Network Protocols and Security | Deep Learning | DBMS | Optimization | Data Structures

EXPERIENCE

e-Yantra, *Team Lead* | India — Sep 2024 - Nov 2024

- Coordinating a 4-member team, building a balancing a two-wheeled builder bot from scratch.
- Optimized PID & LQR control algorithms for balancing the robot, improving stability and reducing error by 18%, allowing smoother real-time corrections.

Social Summer of Code, *SSOC Contributor* | Remote (India) — Jun 2024 - Aug 2024

- Led code reviews for a team of four, identifying and rectifying critical bugs, improving system reliability by reducing error reports by 30%.
- Improved project documentation, making it easier for new contributors to onboard and understand the codebase.
- Collaborated with project maintainers to identify and rectify 50+ critical bugs in the codebase, resulting in a 40% increase in software stability and enhanced user satisfaction ratings by over 20 points.

RESEARCH

- ***Regression Techniques for Calorie Prediction: A Comparative Analysis [Forthcoming]***. Authors: Nagireddy Deekshitha, Mallu Praneeth Reddy, T. A. S. Vardhan, Kura Bhargava Gupta. In: Scopus Conference, 2025.

SKILLS

Languages	Python, Java, C, Javascript, HTML, CSS, Verilog, MongoDB, SQL, MATLAB
Libraries	React.js, Numpy, Pandas, Matplotlib, Scikit-Learn, Keras, Seaborn
Software	Git, RESTful APIs, TCP/IP, Windows 10/8/7, Linux, Tensorflow, OpenCV, Jupyter Notebook, Google Colab

PROJECTS

Personal portfolio — Jan 2025

- Designed a fully responsive portfolio website to showcase projects, skills, and achievements.
- Revamped the website content every quarter by adding 10+ new projects and enhancing user interface capabilities, ensuring the portfolio remained engaging and relevant to potential clients.
- **Tech Stack**: HTML5, CSS3, Javascript, Netlify (for website deployment)

Desktop Voice assistant — Dec 2024

- Developed Cypher, an AI-powered voice assistant, using Python, integrating speech recognition, generative AI, and task automation to streamline daily tasks.
- Designing and developing a user-friendly GUI for Cypher, improving user interaction and accessibility.
- **Tech Stack**: Python, SpeechRecognition, pywin32, Google Generative AI, Tkinter(for GUI)

Music Genre Classification — Sep 2024

- Developed a deep learning model using Convolutional Neural Networks(CNN) to classify music tracks into 10 distinct genres using the GTZAN dataset and achieved an accuracy of approximately 90%, demonstrating the model's effectiveness.
- Authoring a research paper to document the methodology, findings, and insights from the Music Genre Classification project, with the goal of contributing to the academic community's understanding of deep learning in audio classification.
- **Tech Stack**: Python, TensorFlow/Keras, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn

CERTIFICATIONS

Advanced Automation Certification — 2024
Automation Anywhere

VLSI Design and Verification — 2024
Taras Systems and Solutions

Machine Learning — 2022
Stanford University, Coursera