RAKSHITHA KODIPYAKA

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Summary

Computer Science Engineering student at KMIT specializing in AI and ML. Skilled in Python, Java, C++, SQL, and MERN stack. Experienced in applying ML and DL to real-world projects in healthcare and cybersecurity. Strong foundation in DSA and databases. Eager to contribute and grow in dynamic tech environments.

Education

Keshav Memorial Institute of Technology, Hyderabad **Oct. 2022 – 2026**
B.Tech in Computer Science and Engineering with AIML *CGPA: 8.49*

Technical Skills

Programming Languages: Java, Python, C++, C, SQL, JavaScript
Data Science & ML: Machine Learning, Deep Learning, LLMs, Transformers, PyTorch
Tech Stack: MERN (MongoDB, Express.js, React.js, Node.js), Git, GitHub, Docker, AWS
Databases: SQL, MongoDB
Coursework: Software Engineering, DBMS
Soft Skills: Leadership, Teamwork, Communication, Problem-Solving

Projects

Breast Cancer Detection Using AI & VR | *MERN, Flask, Unreal Engine, EfficientNet, U-Net, UNETR, ViT-B16*

- Developed an AI system for breast cancer detection using ultrasound images with immersive VR-based visualization.
- Implemented real-time classification and segmentation models to aid medical professionals and students.
- Improved diagnostic accuracy by 30% through AI-assisted analysis.
- GitHub: Breast Cancer Detection Project

Cyber Attack QA Model | *RAG, XGBoost, Spacy, BERT, DistilBERT, BeautifulSoup, newspaper3k*

- Built a hybrid QA model combining structured knowledge and real-time web-scraped intelligence.
- Used transformer-based NLP models to support cybersecurity threat attribution and investigations.
- Enhanced efficiency of threat analysis and decision-making for experts.
- GitHub: Cyber QA Model Project

Achievements

- Top Performer in Internal Hackathon at KMIT for SIH.
- Java Basics Certificate from HackerRank.
- Winner of RAMANUJAN Olympiad exam (district level).
- Earned NCC 'B' Certificate for leadership and discipline.

Leadership & Extracurricular

KMIT **Ongoing**
HeadGirl, Dance and Photography Club, Rotaract, CSI Member *Hyderabad, India*

- Led as Head Girl at the school level,demonstrating strong leadership andcoordination.
- Active core member of the Dance and Photography clubs.
- Volunteer service through Rotaract Club.
- Member of Computer Society of India (CSI).

GitHub profile link: https://github.com/rakshithakodipyaka

GitHub repo projects links:

- **Cyber Attack Question Answer Model:** https://github.com/rakshithakodipyaka/Web-Based-Question-Answering-Model-for-Cyber-Attack-Investigations-and-Attribution
- **Breast Cancer Detection Using AI &VR: https://github.com/rakshithakodipyaka/Breast_Cancer_Detection**
- **Voice Agent: https://github.com/rakshithakodipyaka/VOICE-AGENT**

My Best AI Project:

Breast Cancer Detection Using AI & VR:

Tech Stack: MERN, Flask, Unreal Engine, EfficientNet, U-Net, UNETR, ViT-B16

This project presents an innovative AI-powered system designed to detect breast cancer from ultrasound images, integrated with a virtual reality (VR) environment for immersive visualization. Developed by a team of five, the solution combines deep learning models with an interactive VR interface to support medical professionals and students in understanding and analyzing complex diagnostic data.

The system uses advanced image classification and segmentation models—such as EfficientNet and ViT-B16 for classification and U-Net, UNETR for high-precision segmentation of ultrasound scans. These models enable real-time analysis, significantly improving diagnostic accuracy and efficiency. The backend is powered by Flask, while the MERN stack manages the user interface and data handling. Unreal Engine is used to create a realistic VR environment where the scanned images and AI-predicted regions are displayed for interactive exploration.
This tool is designed not just for clinical use but also as a valuable educational resource. Medical students can use it to study real-time pathology in an engaging format, while doctors can use it as a second opinion system to confirm diagnoses. Testing has shown that the integration of AI assistance improved detection accuracy by up to 30%, making it a reliable support tool in early cancer detection workflows.