Sai Saranya Mulukutla

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🌐 My Portfolio — 💼 LinkedIn — GitHub

CAREER OBJECTIVE

Passionate Computer Science student specializing in AI and ML, eager to apply my skills in software development, cloud computing, and AI-driven solutions. Seeking opportunities to contribute to innovative projects, optimize systems, and drive business efficiency through technology.

EDUCATION

Vellore Institute of Technology (VIT), Chennai — Aug 2022 – Present
B.Tech in Computer Science and Engineering (AI & ML) CGPA: 9.68 / 10

Narayana Junior College, Nellore, Andhra Pradesh — Jun 2020 – Jun 2022
Intermediate (Class 12), PCM Marks: 977 / 1000 (97.7%)

Dr. Viswasai SRK EM High School, Nellore, Andhra Pradesh — Jun 2014 – Mar 2020
Class 10 Marks: 584 / 600 (97.33%)

EXPERIENCE

SETV Global (AI/ML Intern), Remote — Apr 2025 – Jul 2025
- Developing AI-powered healthcare solutions, including breast and ovarian cancer detection using YOLO models.
- Integrated features such as tts with Azure, and historical data correlation using MongoDB in Streamlit and Gradio-based applications.
- Contributed to technical documentation, model evaluation, and research on disease symptoms and diagnostic indicators.

Samsung R&D Institute (Prism Intern), Remote — Jun 2024 – Feb 2025
- Enhanced facial feature segmentation models using TensorFlow and OpenCV for cosmetics and social media filters.
- Built a lightweight RTNet Transformer + Attention UNet model, reducing parameters from 17M to 1.6M.
- Improved inference while maintaining accuracy using minimal resources.

Linux Club, VIT Chennai (Management Team Member), Chennai — Apr 2023 – Jan 2025
- Managed marketing and logistics for 5+ events including Cyber-0-Day, FOSSIT with 150+ attendees.
- Conducted post-event analytics, increasing feedback collection by 40% for better future planning.

PROJECTS

AquaAegis – 2D Ocean Exploration Game GitHub
- Crafted an interactive 2D game in Unity using C#, Light2D, and custom mechanics to raise awareness about ocean pollution and endangered species.
- Integrated quizzes, sonar scanning, and map features with sound effects.
Technologies: Unity, C#, Light2D, Game Physics, UI/UX Design

Alzheimer's Disease Detection – Medical Imaging Classification Model GitHub
- Designed a robust CNN-based pipeline to classify MRI scans across Alzheimer's stages using a hybrid DenseNet121 + CBAM architecture with LIME-based interpretability.
- Integrated a Groq-powered AI chatbot for interactive support and deployed the solution via a Streamlit-based frontend interface.
Technologies: TensorFlow, Keras, OpenCV, DenseNet121, CBAM, LIME, Streamlit, GroqAPI

InfoSphere – AI Content Generator and Quiz App GitHub
- Developed a content generation using Meta's Llama 3 (70B), translation, content moderation, and TTS.
- Increased user engagement 60% with dynamic quizzes and visual aids.
Technologies: AWS Bedrock, Comprehend, Polly, S3, Amplify, HTML, JS, API Ninjas, WikiPedia, UnSplash

Sahridaya – AI-Driven Mental Health Companion GitHub
- Created a cross-platform emotional support solution using a CNN-based facial sentiment analysis model and chatbot integration (LangChain + Mistral).
Technologies: TensorFlow, OpenCV, Hugging Face, LangChain, GroqAPI, Streamlit, Tkinter, MatplotLib

ATM Simulation – Java Banking App GitHub
- Engineered a Java GUI simulating ATM banking operations with secure MySQL integration via JDBC.
Technologies: Java, AWT, GUI, JDBC, MySQL

SKILLS

Languages: C++, C, Java, Python, R, SQL, JavaScript, HTML
Frameworks/Libraries: TensorFlow, Scikit-learn, React.js, OpenCV, Tailwind CSS, CSS
Tools: Git, VSCode, Eclipse, NetBeans, Unity, AWS, ProjectLibre
Databases: MySQL, AWS DynamoDB, Oracle SQL

COURSEWORK

Core Subjects: Data Structures & Algorithms, OOP, Database Management Systems (DBMS), Machine Learning, Computer Networks, Cryptography, Game Programming, Machine Vision, Deep learning

ACHIEVEMENTS & CERTIFICATIONS

- Top 3 Merit Student, CSE AI-ML batch (300+ students) at VIT Chennai
- 100% Attendance Award, VIT Chennai
- Class X School Topper – Dr. SRK EM High School (2020)
Certifications: ML Specialization (Coursera), AI For All (Govt. of India), GenAI (Microsoft), Programming (IIT Bombay)