

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, Chennai , Computer Science, Specialization in AI & ML	Aug. 2022 – Present
BTech <ul style="list-style-type: none">CGPA: 9.65/10Coursework: Data Structures&Algorithms, Object-Oriented Programming, Database Management, Machine Learning, Computer Networks, Web Programming, Computer Architecture, Deep Learning	

Experience

Samsung R&D Institute , Samsung Prism Intern	Remote Jun. 2024 – Present
<ul style="list-style-type: none">Developed an AI-based facial feature segmentation model, focusing on precise feature identification for cosmetics and social media filter applications.Conducted an in-depth comparative study of various segmentation architectures, including U-Net, RT Network, and Attention U-Net, to enhance model performance and efficiency.Designed, implemented, and optimized a lightweight student-teacher network, successfully reducing model parameters from 17M to 1.6M while maintaining high segmentation accuracy.	
Linux Club, VIT Chennai , Management Team Member	Chennai, TN Apr. 2023 – Jan. 2025
<ul style="list-style-type: none">Led marketing efforts for major events like Cyber-0-Day and FOSSIT, creating content strategies and promotional materials to enhance event visibility.Coordinated logistics and communication for events with 150+ participants, ensuring smooth execution and seamless technical support.Gathered and analyzed post-event feedback through structured survey forms to identify areas for improvement, leading to enhanced participant engagement in future events.	

Projects

PharmaPlus – Cloud-Based Medicine Inventory System	GitHub
<ul style="list-style-type: none">Developed a full-stack web application enabling secure CRUD operations for medicine data, ensuring scalability and real-time access control.Designed a serverless backend using AWS Lambda and API Gateway, integrating authentication via IAM and deploying the front-end with AWS Amplify.Technologies Used: AWS DynamoDB, Lambda, API Gateway, IAM, Amplify, HTML, CSS, JavaScript, Python, REST API, PostmanAPI platform.	
InfoSphere – AI-Powered Content Generation and Quiz App	GitHub
<ul style="list-style-type: none">Developed a serverless application for AI-based content generation by utilizing the Meta Llama 3 70B model and integrating Wikipedia and Unsplash APIs for an enriched user experience.Implemented real-time language translation, topic moderation, and text-to-speech rendering, enhancing accessibility and engagement.Integrated a quiz feature to boost user engagement by 60% using API Ninjas.Technologies Used: AWS Bedrock, Comprehend, Translate, Polly, Lambda, API Gateway, S3, Amplify, HTML, CSS, JavaScript, API Ninjas.	

Sahridaya – AI-Driven Mental Health Companion

[Drive link](#)

- Developed an AI-powered mental health companion integrating facial emotion recognition, sentiment analysis, and an interactive chatbot to assess and improve user well-being.
- Implemented real-time mood detection using CNN for facial analysis and DistilBERT-based sentiment analysis for text-based emotion recognition.
- Built a chatbot with LangChain and Mistral-8x7B, maintaining contextual memory for personalized mental wellness advice.
- **Technologies Used:** Python, TensorFlow, OpenCV, Hugging Face (DistilBERT), Streamlit, LangChain, Tkinter.

ATM Simulation – Java-Based Banking System

[GitHub](#)

- Developed a real-time ATM simulation application replicating essential banking functionalities such as balance inquiry, PIN change, mini statements, and account management.
- Designed an interactive and intuitive GUI using Java AWT, ensuring a seamless user experience for banking transactions.
- Implemented secure transaction processing by integrating MySQL with JDBC, enabling persistent data storage and retrieval.
- **Technologies Used:** Java, Java AWT, GUI, JDBC, MySQL.

Technologies

Languages: C++, C, Java, Python, R, SQL, JavaScript

Frameworks and Libraries: TensorFlow, Scikit-learn, Keras, OpenCV, React.js, Tailwind CSS, HTML, CSS

Tools: Git, VSCode, Eclipse, Apache NetBeans, ProjectLibre, Canvas, Unity (GameDevelopment), AWS

Databases: MySQL, AWS DynamoDB, Oracle SQL

Honours and Awards

- Secured top 3rd position and been one among the top 10 merit students in the CSE AI- ML batch of 300+ at VIT Chennai.
- Recognized for 100% attendance at VIT Chennai for 2 years.
- School topper in class X final results , Dr. SRK EM High School - 2020.

Certifications

Machine Learning Specialization - Coursera	Jun. 2024
Programming Certifications in C, Python, C++ - IIT Bombay	Apr. 2023
AI For All - Government of India	May 2024
Career Essentials in Generative AI - Microsoft, LinkedIn	Jul. 2024