MEGA UMASANKAR

Chennai, India | +91 95660 01196 | Linkedin | mega.u2022@vitstudent.ac.in

Junior with a strong foundation in full-stack development and AI/ML, seeking software development internships to enhance my skills and contribute to exciting projects.

EDUCATION

VIT UNIVERSITY, CHENNAI Sep 2022 – July 2026

B.Tech Computer Science and Engineering with Specialization in AI and ML CGPA: 9.22

EXPERIENCE

VEGA INTELLISOFT, CHENNAI: June 2024 – July 2024

Full Stack Development Intern

- Contributed to the development of basic Angular projects, enhancing user interfaces and implementing responsive design.
- Collaborated with the ATS Development Team to build and maintain features for an Applicant Tracking System.

SAMSUNG PRISM: June 2024 – Jan 2025

R&D Intern (Review Based Recommender System)

- Developing and implementing a recommender system that leverages product reviews to capture and analyze user preferences.
- Analyzing user feedback and iterating on system features to better align with user needs and expectations.

PROJECTS

CAR PARKING MANAGEMENT SYSTEM:

- Designed and implemented a scalable automation system for managing entrance and exit processes, resulting in a 40% reduction in processing time for customer fee computations and improving overall operational efficiency.
- Developed a user-friendly graphical interface with real-time space updates using Tkinter in Python.
- Implemented parking duration monitoring using Python's datetime module to ensure fair pricing.
- Integrated with an HTML-based payment portal for efficient transaction processing.

HOME SECURITY SYSTEM:

- Created a user-friendly multi-layered home security solution using Arduino Mega and IDE.
- Programmed the microcontroller board using IDE by utilizing appropriate libraries and algorithms.
- Incorporated OTP verification using a GSM module and fingerprint biometric authentication with an accuracy rate of 95%.

DEEPFAKE DETECTION:

- Developed a deep fake detection system to identify manipulated videos and enhance digital media security.
- Implemented a custom-built model for deepfake classification and integrated it into a React-based web application.
- Designed an intuitive interface to facilitate video uploads and automated analysis for real-time detection.
- Optimized model performance to improve accuracy and efficiency in detecting synthetic media.

DONOR MANAGEMENT SYSTEM:

- Designing a donor management system to optimize organ allocation and enhance patient outcomes.
- Developing a relational database schema using SQLite and leveraging Python for DB integration.
- Creating a user-friendly interface to facilitate access to donor data and decision-making and planning.
- Adding features to track organ availability and schedule transplant surgeries within the system.

SKILLS

- **Programming Languages**: Java, C, C++, Python, R
- **Web Technologies**: AngularJS, React JS
- **Front-End Skills**: HTML, CSS, Javascript
- **Data Science:** DBMS, Machine Learning

EXTRACURRICULAR ACTIVITIES

- **Committee Member, TechnoVIT'24**: Contributed as a member of the Discipline Committee for Technovit 24, helping maintain order and ensuring everyone followed the event rules.
- **Member at Linux Club, VITC**: Organized and led the marketing team for FossIt'24 and headed events such as CTFs, hackathons, and workshops, demonstrating effective leadership skills.
- **Member at Google Developers Student Club, VITC**: Organized DevsHouse'24 hackathon hosted by the Google Developers Student Club and was committed to driving tech innovation.