Aniket Anand

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Education

Vellore Institute of Technology, Vellore, Tamil Nadu   Jul 2025
Bachelor of Technology in Computer Science and Engineering with Specialization in IoT   *CGPA: 8.4*

Delhi Public School   Feb 2020
12th Standard   *Percentage: 92.6%*

Experience

IOT Labs, India Meteorological Department   *New Delhi*
Intern   *Nov 2023 – Dec 2023*

- Developed a cost-effective and reliable **bidirectional visitor counter system** for Smart Home Automation, enhancing real-time occupancy tracking and security features.
- Contributed to **IoT projects utilizing ESP32 and MicroPython**, gaining hands-on experience in hardware integration and software development to optimize system performance.
- Assisted in **training machine learning models** on **satellite imagery** data, supporting meteorological research initiatives and improving predictive analytics for **weather forecasting**.

Projects

Pregnancy Companion Web App

- Led the design and development of a **web application** to provide trimester-specific support and **information for pregnant women**.
- Developed an AI-powered **pregnancy chatbot** using OpenAI API, handling 100+ daily queries with an accuracy of 85%.
- Implemented a **user-centered design** approach, ensuring the platform meets the target audience's unique needs with an empathetic and intuitive interface.

AI Powered Music App

- Developed an immersive **music application integrating AI-driven mood detection and Three.js-based 3D visualizations**, enhancing user engagement.
- Implemented **real-time mood analysis algorithms**, dynamically personalizing music and visuals, improving retention rates.
- Designed a seamless, user-friendly interface, enabling effortless **navigation across 5 different music genres and moods**, boosting user satisfaction.

Skills

Programming Languages: Python, Java, SQL
Computer Science Concepts: Database Management, Operating Systems, Algorithms & Data Structures, Object-Oriented Programming
Technical Skills: Machine Learning, IoT Development, MicroPython, Embedded C, Web Development, Flask, ESP32, Hardware-Software Integration, Cloud Computing (AWS), GitHub

Publications

IoT-Based Car Driver Assistance System Using Computer Vision and Machine Learning
The 3rd International Conference on Artificial Intelligence for Internet of Things (AIIoT)

- Contributed to the development of an AI-powered driver assistance system, leveraging computer vision and machine learning to enhance real-time road safety.
- Implemented object detection and driver behavior analysis algorithms, improving hazard prediction accuracy by 30%.