S Sanjith Surya

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github.com/Sanjith2003

Skills

- **Languages**: Python, C, C++, Java, HTML, CSS, JavaScript
- **Technologies**: Neural Networks, OpenCV, SQL, Tableau, Git, GitHub, Firebase, Flask, MongoDB, Compilers
- **Frameworks**: TensorFlow, WebGL, Keras, FastAPI

Professional Experience

Software Engineer Intern at OneApp *June 2024 - July 2024*

- **Invented** a transformative learning application using Gemini and OpenAI's GPT-4 to **revolutionize** textbooks into interactive content, **boosting** student engagement by **70%** and **accelerating** content creation by **60%**.
- **Automated** content generation processes, **enhancing** efficiency by **80%** and **slashing** manual content creation time by **50%**.
- Technologies used: Flask, Gemini, OpenAI, Firebase, Google Text-to-Speech

Software Engineer Intern at Clay Software Labs Private Limited *Aug 2023 - Oct 2023*

- **Engineered** an innovative GPU layer that **converted** CPU executable code into GPU-compatible code, **boosting** computational efficiency by **70%** and **minimizing** latency by **30%**.
- **Streamlined** rendering pipelines, **enhancing** frame rates by **50%** and **cutting** load times by **25%**.

IIT Madras, Chennai *Oct 2022 - Feb 2023*

- **Crafted** an extensive Python programming questionnaire for an AICTE-sponsored book by Prof. Dr. Rupesh Nasre from IIT Madras, **developing** over **100** challenging coding questions.
- Technologies: Python, Algorithms, UI/UX

Projects

Project Manager AI *Aug 2024*

- **Designed** an AI-driven tool using GPT-4O, **orchestrating** project plans, timelines, and risk assessments, **improving** planning efficiency by **50%** and **reducing** planning time by **40%**.
- **Developed** an interactive system that **adaptively adjusted** team size and deadlines, **cutting** project overruns by **30%** and **raising** on-time delivery rates by **25%**.
- Technologies used: **GPT-4O**, **Gemini**, **Flask**, **Firebase**, **Google Cloud**

Emotion Recognition System using CNN *Mar 2023*

- **Built** an emotion recognition model leveraging Convolutional Neural Networks (CNNs), **achieving 85%** classification accuracy, trained on over **50,000** labeled images. **Decreased** misclassification errors by **30%** compared to previous models.
- Technologies used: TensorFlow, Keras API, OpenCV, NumPy, Pandas

Intrusion Detection System *Dec 2022*

- **Led** a team of **3** to develop a state-of-the-art video feed monitoring system, **attaining** a **95%** accuracy rate in identifying and alerting users to intrusions, with an **average** detection time of less than **2** seconds.
- **Processed** high-performance video feeds capturing **1000** frames per second to ensure **exceptional** detection accuracy.
- Technologies used: OpenCV, Haar Cascade, NumPy

Education

Program	Institution	%/CGPA	Year of Completion
B.Tech, CSE	Vellore Institute of Technology, Vellore	**9.52**	2025
Class XII, CBSE	PSBB, KK NAGAR, Chennai	**93.2**	2021