S Sanjith Surya

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Summary

- Driven by a fervent passion for programming, with expertise in machine learning and backend technologies. Dedicated to devising innovative solutions and optimizing performance through state-of-the-art technology. Currently achieving an impressive **CGPA of 9.52**.

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*
  - Pioneered a groundbreaking learning application utilizing Gemini and OpenAI's GPT-4 to revolutionize textbooks into dynamic, interactive content, **boosting student engagement by 70%** and **accelerating content creation by 60%**.
  - Technologies used: Flask, Gemini, OpenAI, Firebase, Google Text-to-Speech
- **Software Engineer Intern at Clay Software Labs Private Limited** *Aug 2023 - Oct 2023*
  - Designed an advanced GPU layer that translates CPU executable code into GPU-compatible code, **enhancing computational efficiency by 70%** and **cutting latency by 30%**.
  - Technologies used: WebGL, Three.js, Metal Shading Language, C frameworks
- **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, adeptly solving over 100 challenging coding questions.
  - Topics Covered: Python, Algorithms, NumPy, Pandas, GUI, UI/UX

Projects

- **Project Manager AI** *Aug 2024*
  - **Engineered an AI-driven project management tool** using GPT-4O, capable of autonomously parsing Software Requirement Documents to generate comprehensive project plans, including timelines, resource allocation, technology stacks, and risk assessment, **improving planning efficiency by over 50%**.
  - **Spearheaded the creation** of an interactive planning system that dynamically adjusts team size, sprint durations, and deadlines, **reducing project overruns by 30%**.
- **Emotion Recognition System using CNN** *Mar 2023*
  - Engineered an emotion recognition model leveraging Convolutional Neural Networks (CNNs) with **85% classification accuracy**, trained on over 50,000 labeled images. Reduced misclassification errors by **30%** compared to previous models. **Technology used: TensorFlow, Keras API, OpenCV, NumPy, Pandas**

Education

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