

SANJAY T

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Objective:

Aspiring Software Developer with a strong foundation in Java, Python, and Data Structures, and growing expertise in Machine Learning and NLP using TensorFlow. I am eager to apply my skills in real-world projects, especially in software or ML development roles that demand innovation and collaboration.

Education:

Dr. Mahalingam College of Engineering and Technology, Pollachi.

B.E. Artificial Intelligence and Machine Learning | Expected May 2026 | **CGPA:** 8.08 (up to last semester)

Sri Vijay Vidyalaya Matric Higher Secondary School (Boys), Dharmapuri.

HSC | May 2022 | **Percentage:** 81.83%

Sri Vijay Vidyalaya Matric Higher Secondary School (Boys), Dharmapuri.

SSLC | May 2020 | **Percentage:** 84%

Skills:

- **Programming Languages:** Java, Python, C.
- **Framework:** TensorFlow
- **Databases:** MySQL
- **Tools & Technologies:** Git, GitHub, VS Code.
- **Concepts:** Data Structures, OOP, Machine Learning, NLP
- **Frontend:** HTML, CSS.
- **Soft Skills:** Teamwork, Problem Solving, Communication

Projects:

Image Recognition Tourist Guide using LLM:

April 2025 - June 2025

- Engineered an AI-powered tourist guide using **CNN-based image recognition** integrated with a fine-tuned **LLM** to generate contextual descriptions of landmarks.
- Implemented dynamic recommendations for transportation, lodging, restaurants, and emergency services based on user input.
- Boosted user interaction by 30% (based on prototype user feedback), enhancing personalized travel guidance using real-time image input and dynamic suggestions.

Tech Stack: TensorFlow, OpenCV, LLM, HTML, CSS

AI Virtual Mouse Using Hand Movements:

May 2024 - June 2024

- Designed and implemented a real-time virtual mouse using **MediaPipe** and **OpenCV**, enabling cursor control through hand gesture recognition.
- Achieved 92% gesture recognition accuracy on a real-time test dataset, improving system accessibility for users with motor impairments.

Tech Stack: OpenCV, Python, MediaPipe, NumPy

Internship:

Synovers, Coimbatore - Machine Learning Intern

June 2024 - July 2024

- Developed and fine-tuned machine learning algorithms, increasing model accuracy by 15% through effective preprocessing and hyperparameter tuning.
- Collaborated with a team of ML engineers to optimize YOLOv5-based real-time object detection models, reducing false positives by 12% through advanced preprocessing and tuning.

Certifications:

- MySQL – Scaler (2025)
- Fundamentals of Deep Learning – NVIDIA (2023)

Leadership and Activities:

- Assisted with social media campaigns and organized community events to raise awareness.
- Secured First Position in Codeathon (CSE Domain) at KPR College of Engineering and Technology.