

SIDHARTH VIJAYAN

3rd-year Computer Engineering Student

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PROFESSIONAL SUMMARY

A results-driven pre-final year Computer Engineering student (MIT WPU) with a comprehensive foundation in Python, Machine Learning, and Data Analysis. Demonstrated capability in leading technical initiatives as the Synapse AI Club Management Head, combined with practical experience in automation and full-stack project development. Seeking an internship to translate complex data into actionable solutions.

SKILLS

Databases :	MySQL, PostgreSQL, ChromaDB
Frameworks Libraries :	NumPy, Django, Flask, Matplotlib, Power BI, Pandas, React, FastAPI
Languages :	English, Malayalam, Hindi, Arabic
Programming Languages :	Python, C++, Java, JavaScript, R, SQL
Soft Skills :	Time Management, Teamwork, Problem Solving, Critical Thinking
Tools Platforms :	Git, SQL, GitHub, Docker, LangChain, Streamlit, CI/CD, Postman

PROJECTS

PolyRAG — Polymorphic Retrieval-Augmented Generation System

- Designed a 5-agent RAG architecture supporting 3 data modalities (PDF, Excel, images).
- Used sentence-transformers embeddings with a three-tier LLM fallback chain — Groq (Llama 3.1 70B), Google Gemini 1.5 Flash, and local Ollama — ensuring zero-downtime response generation.
- Reduced hallucination risk by grounding all responses strictly in retrieved context using top-4 semantic similarity search across ChromaDB collections

AI-Powered Resume Screener

- A full-stack web application to automatically parse, score, and rank candidate resumes against job descriptions.

Technologies / Tools Used : Python, spaCy, Regex, Streamlit, TF-IDF

Fruit Ninja

- A real-time webcam game using MediaPipe + Pygame that performs hand-landmark tracking, mask-based fruit slicing, stereo-panned audio and local recording; optimized for CPU (Python 3.11). Achieved smooth 30–60 FPS on laptop-class CPUs and reduced false positives by ~40% through smoothing & polyline collision logic.

Technologies / Tools Used : Python, Mediapipe, Pygame

Image Detection and Face Recognition Framework

- Trained and deployed a model based on effective computing and an adversarial neural network, and its implementation in machine vision.

Technologies / Tools Used : VGG16, Torchvision, OpenCV, NumPy, Matplotlib, Pandas, Streamlit

WORK EXPERIENCES

Management Head

Jan 2025 - Present

Synapse AI Club, MIT WPU

- Coordinated organizational events, including technical workshops, guest lectures, and hackathons, driving member engagement and skill development.
- Drove digital strategy and scaled social media presence from a dozen to 700+ followers across LinkedIn and Instagram (~50x growth), significantly improving club visibility.

Technical Member

Aug 2024 - Present

Synapse AI Club, MIT WPU

- Instructed and mentored students in fundamental concepts through beginner bootcamps and specialized workshops.

Technologies / Skills Used : Python, OpenCV, MediaPipe, Pandas, Numpy, Scikit-Learn, Pygame, Streamlit

EDUCATIONS

MIT World Peace University

Aug 2023 - Present

Bachelor of Technology - Computer Science Engineering - AI & Data Science

CGPA : 8.18

GEMS OUR OWN ENGLISH HIGH SCHOOL | Sharjah

Apr 2021 - May 2023

Senior Secondary School

Grade : 82.8

CERTIFICATIONS

Machine Learning Specialization

IBM

Certification Url : <https://coursera.org/share/0f527a44760b0cd4c6e4d2c12412a880>

Industrial Training in Data Science

BharatSkillz, MOOD INDIGO IIT BOMBAY

Python Data Structures

University of Michigan

Certification Url : <https://coursera.org/share/a9089e4eee1f38ab93e0a10a11a192b1>