Aditya Atmaram Sawant
Senior Machine Learning Engineer

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EXPERIENCE

Senior Machine Learning Engineer
Quantiphi Analytics Solutions Private Limited ⧉

04/2025 - Present

- Optimized computer vision and LLM-based solutions for reliability, and high performance across diverse use cases.
- Implemented advanced object detection and tracking models, achieving over 90% accuracy in key business projects and delivering high-impact solutions for clients.
- Optimizing complex ML pipelines on a smaller memory device.
- Designed and developed a retrieval pipeline leveraging embedding models, rerankers, and Milvus to enhance the system's data retrieval capabilities.
- Technologies Used: Python, DeepStream, LangChain, Vector Databases, LLMs, RAG Pipelines, NVIDIA SDKs, and libraries.

Machine Learning Engineer
Quantiphi Analytics Solutions Private Limited ⧉

08/2022 - 03/2025

- Built a robust AI application using NVIDIA SDKs like DeepStream, ACE Agent, Tokkio, and Metropolis to solve real-world problems
- Completed a four-month internship focused on exploring machine learning concepts, algorithms, and practical applications.

Web Developer
VESIT ⧉

03/2022 - 02/2022

- Developed a responsive website for "Tech4Good 2022," a national-level technical project contest hosted by our college

PROJECTS

CleanSea: The Deep Learning Model for Ocean Waste Detection (08/2021 - 02/2022) ⧉
- Build a project to identify various Hotspots & detailed analysis between many different classes of waste in the epipelagic layer of Ocean
- Technology used: Python , Python modules , HTML & CSS

Real time Face Mask Detection and Email Alert System with Age Prediction (09/2020 - 04/2021) ⧉
- Developed a system that detects masked and unmasked faces to tackle safety violations, promote face mask usage, and ensure a safe workplace.
- Technology used: Tensorflow , Opencv , Xampp Server

Complaint Management System (07/2020 - 11/2020) ⧉
- The UI enables online FIR lodging to Police officers & maintains computerized records of all Complaints in the database.
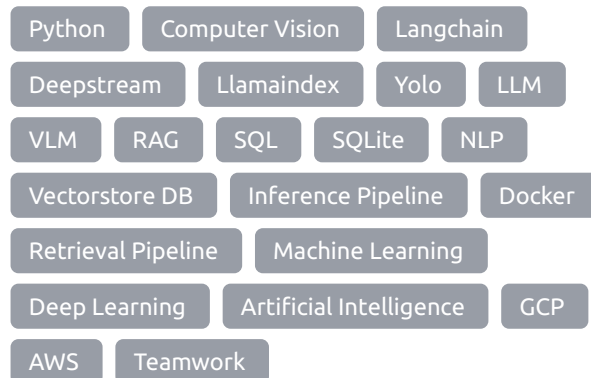- Technology used: HTML, CSS & Javascript , MySQL

EDUCATION

B.E. (Computer Engineering)
Vivekanand Education Society's Institute of Technology, Mumbai

2018 - 2022   *8.43/10*

SKILLS

Python   Computer Vision   Langchain
Deepstream   Llamaindex   Yolo   LLM
VLM   RAG   SQL   SQLite   NLP
Vectorstore DB   Inference Pipeline   Docker
Retrieval Pipeline   Machine Learning
Deep Learning   Artificial Intelligence   GCP
AWS   Teamwork

CERTIFICATES

OCI 2024 Digital Assistant Certified Professional (10/2024) ⧉
(Oracle Cloud Infrastructure)

OCI 2023 Certified Data Science Professional (12/2023) ⧉
(Oracle Cloud Infrastructure)

Building Real-Time Video AI Applications (03/2023) ⧉
(Nvidia)

Computer Vision: Python OCR & Object Detection Quick Starter (07/2023) ⧉
(Udemy)

PUBLICATIONS

Publication in IJCRT Journal (06/2021) ⧉
(Published a Research paper in IJCRT for Face Mask Detection and Alert System with Age Prediction)

Publication in JOITS Journal (e-ISSN: 2581-849X) (11/2021) ⧉
(Published a Research paper in JOITS for Ocean Waste Detection Model)

Showcased a Paper at Chem-conflux 22 International Conference (04/2022) ⧉
(Presented paper at International Conference on Technological Interventions for Sustainability held by USM, Malaysia & MNNIT Prayagraj)

INTERESTS

Playing Cricket   Playing Football
Listening Music   Learning New Technologies