

VIVEK SANJAY PANDEY

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SUMMARY

Final-year AI/ML Engineer with production experience building **agentic AI systems**, **LLM pipelines**, and **RAG architectures**. Proficient in LangChain, LlamaIndex, PyTorch, FastAPI, and end-to-end ML deployment. Two live commercial products deployed; MSME Hackathon Winner and university research award recipient. Eager to contribute cutting-edge AI/ML capabilities to innovative software delivery teams.

SKILLS

AI/ML & GenAI: LangChain, LlamaIndex, RAG Pipelines, Agentic Workflows, LLM Integration, Prompt Engineering, Supervised & Unsupervised Learning, Deep Learning, NLP, Computer Vision, Anomaly Detection

Frameworks & Libraries: PyTorch, TensorFlow, Keras, Scikit-learn, XGBoost, Pandas, NumPy, OpenCV, MediaPipe, Streamlit, FastAPI, MLflow

Databases & Vector Stores: PostgreSQL, MongoDB, MySQL, FAISS, ChromaDB

Cloud, DevOps & APIs: AWS, Docker, HuggingFace Spaces, REST APIs, GitHub Actions, OAuth 2.0

Programming: Python, JavaScript (ES6+), TypeScript, C

WORK EXPERIENCE

AI/ML Engineer & Full Stack Developer Intern

Technewity Labs

Dec 2024 – Present

Remote

- Architected and deployed a **production agentic RAG chatbot** (LangChain + LlamaIndex + FAISS/ChromaDB + PostgreSQL) live at chat.accudesign.in – reduced client support resolution time by **50%**.
- Built an **AI Engineering Design & Quoting Platform**: LLM guides engineers through product design via expert-curated prompts, auto-generates manufacturing steps, and feeds into a cost estimation module – live at accu-design-quoting.onrender.com.
- Designed and shipped **multi-step LangChain agents** for autonomous agentic workflow execution; React + TypeScript frontend, optimised PostgreSQL pipelines, Agile delivery.

PROJECTS

AI Design & Quoting Platform | accu-design-quoting.onrender.com

LLM, Prompt Engineering, FastAPI, React, PostgreSQL, Docker

2024–25

- Prompt-driven engineering design tool**: LLM grounded in expert references autonomously generates step-by-step manufacturing processes; outputs pipe into a cost estimation module that **eliminates 100% of manual quoting effort**.

ACCU Bot – Agentic RAG Chatbot | chat.accudesign.in

LangChain, LlamaIndex, FAISS, ChromaDB, PERN Stack, WebSocket, OAuth 2.0, Docker

2024–25

- Full-stack RAG system: semantic chunking, vector retrieval, real-time PDF/image ingestion, web-search grounding, multi-session management, persistent PostgreSQL storage at **production scale**.

DDoS Attack Live Detection & Prevention | HuggingFace Spaces (Live)

Python, Random Forest, XGBoost, Autoencoder, Lucid CNN, Streamlit, HuggingFace

2025

- Hybrid ensemble model** (RF + XGBoost + Autoencoder + Lucid CNN) on CIC-DDoS 2019 with 80+ engineered network-flow features – achieved **99.2% detection accuracy**; real-time inference pipeline with interactive Streamlit dashboard.

Misinformation Classifier Agent | Mumbai Hacks Finalist

LangChain, NLP, Agentic Tool-Use, Chrome Extension, Python, Web-Search Grounding

2024

- LangChain agentic Chrome extension** for real-time NLP-based misinformation detection in WhatsApp and Telegram – multi-step reasoning, tool-use for claim verification. **Mumbai Hacks Finalist**.

Hand Gesture Control System | MSME Hackathon Winner

Python, OpenCV, MediaPipe, Computer Vision, IoT

2024

- Real-time **gesture recognition** (OpenCV + MediaPipe) for touch-free presentation control under varied lighting – **MSME Hackathon Winner**.

EDUCATION

B.E. Computer Science (AI & ML) | CGPA: 9.0 / 10

ARMIET, Mumbai University

2022 – 2026

Mumbai

Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Machine Learning, Computer Networks

CERTIFICATIONS, TRAINING & ACHIEVEMENTS

- Pratinik Infotech – Data Science**: End-to-end credit card fraud detection pipeline – ensemble classifiers, FastAPI model serving, Streamlit dashboard.
- I Studio – Data Science**: Competitive aptitude screen (51/60); full ML lifecycle on COVID-19 dataset.
- MSME Hackathon Winner** — **Mumbai Hacks Finalist** — **Aavishkar Research Convention** – Certificate of Excellence, Mumbai University (Nov 2024).