Open to senior ML engineering and AI product roles

Get in touch

Shagun Tyagi

AI/ML Engineer and MBA (Product Management) candidate

I ship LLM agents, RAG pipelines and ML-powered APIs to production, and make the business case for them.

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Selected work

PitchIQ

AI Website Auditing & Lead Intelligence

Manual website audits take hours and can't scale for cold outreach to hundreds of prospects.

- Audit turnaround reduced from hours to minutes
- Personalized outreach at scale, zero manual effort per lead

Python, OpenAI, Playwright, MongoDB, Email Automation

LeadGen AI

Google Maps Lead Generation Engine

Cold email campaigns use generic templates that get ignored. Manual lead research doesn't scale.

- Replaced generic blasts with context-specific messaging per lead
- Lead scoring layer prioritizes highest-value prospects

Python, OpenAI, Playwright, MongoDB, SMTP Automation

Enterprise RAG Chatbot

Multi-Document AI Knowledge System

Enterprise teams waste hours searching internal docs. Generic chatbots hallucinate and can't cite sources.

- Millisecond semantic retrieval across large internal document libraries
- Citation-backed answers eliminate hallucinations

Python, OpenAI, LangChain, FAISS, ChromaDB, MongoDB

FaceGuard

Real-Time Facial Recognition Attendance

Manual attendance is slow, error-prone, and gameable. Most OSS solutions fail under real-world lighting and occlusions.

- Sub-second identification across varied lighting and partial occlusions
- Recognition and UI on separate threads, no frame drops

Python, OpenCV, DeepFace, ArcFace, SQLite, Tkinter

Mario in Python

WebAssembly Pygame Port

Pygame games run locally only, no way to share a playable demo without asking people to install Python.

- Zero-install play in browser, shareable via URL
- Mobile touch D-pad with keyboard event bridge

Python, Pygame, Pygbag, WebAssembly, GitHub Pages

ICD-10 AI Coder

Medical Coding Automation

AI-powered medical coding assistant using Claude and GPT-4o to automate ICD-10 code assignment from clinical notes, reducing manual coding time for HCC risk adjustment workflows.

- Automates high-effort manual coding from unstructured clinical text
- Dual-model validation using Claude + GPT-4o for accuracy

Python, Claude API, GPT-4o, ICD-10, NLP

Experience

Aug 2025 – Present — **AI/ML Engineer**
Envigo
Reduced manual data processing by ~40% via LangChain-based LLM agents integrated into backend APIs

2024 — **Published Researcher**
International Journal of Science and Research Archive (IJSRA)
Published in IJSRA Vol. 12, No. 1, 2024, DOI: 10.30574/ijsra.2024.12.1.0781

Apr 2024 – Aug 2025 — **Software Engineer**
Airtel
Cut API response latency by ~30% via optimised FastAPI microservices

Apr 2023 – Jun 2023 — **Data Analyst Intern**
Trainity
Built business dashboards using SQL and Power BI

Nov 2022 – Jan 2023 — **Software Developer Intern**
Internship Studio
Built backend components using Python

2022 – 2024 — **ML Team Lead**
CXI Community
Organised 5+ technical workshops on ML, AI, and cloud computing

Aug 2022 – Oct 2022 — **Python Developer Intern**
Robust Results Private Limited
Developed backend features using Python and Flask

Education

Skills

Master of Business Administration (MBA)
Chandigarh University · Jan 2026 – Dec 2028

B.Tech, Computer Science Engineering (IoT)
Meerut Institute of Engineering and Technology (MIET) · Jul 2020 – Dec 2024

Languages & DBs: Python, JavaScript, C, SQL, MySQL, MongoDB, SQLite

AI / ML / GenAI: LangChain, TensorFlow, OpenCV, OpenAI API, FAISS, DeepFace, Scikit-Learn

Frameworks & Tools: FastAPI, Flask, Vite, Playwright, Pandas

Cloud & DevOps: AWS, Azure, Docker, Firebase, CI/CD, Linux

IoT & Data Viz: Raspberry Pi, Power BI, Three.js, Twilio

Certifications

AWS Academy Cloud Foundations (Amazon Web Services, Nov 2022); Microsoft Azure Fundamentals (AZ-900) (Microsoft, May 2023); Microsoft Power Platform Fundamentals (PL-900) (Microsoft, May 2023); CyberOps Associate (Cisco, Dec 2022); CCNA: Introduction to Networks (Cisco, Dec 2022); Cybersecurity Essentials (Cisco, Oct 2022); Python Certification (HackerRank, Oct 2023); SQL Certification (HackerRank, Dec 2022); TCS Youth Employment Program (Tata Consultancy Services, Dec 2023)