ABDUL SAMAD

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PROFESSIONAL SUMMARY

AI/ML Engineer (BS Artificial Intelligence SZABIST Islamabad, 2026) who ships complete, production systems rather than demos. Creator of INFILOFT, a live luxury e-commerce platform running on a self-managed VPS with real payments and real customers. Currently an ML Engineering Intern at FlyRank and an intern at CodeCelix, where I've delivered automation pipelines, AI sales agents, and messaging bots that are actively running for clients today. Comfortable across the full stack Python/ML (LangChain, HuggingFace, YOLOv8, Groq), backend (Django, Node.js/Express), frontend (Next.js, React), and DevOps (Nginx, PM2, Docker-free VPS deployment, PostgreSQL, Redis).

EXPERIENCE

ML Engineering Intern — Remote
FlyRank — *2026 – Present*

- Working through a structured AI Fluency engineering program covering ML task framing, ranking-signal analysis, and applied model evaluation.
- Built a binary classification pipeline predicting content decline from a DuckDB/HuggingFace-sourced ranking-signal dataset as part of the Lane 1: Ranking Signal Analysis module.
- Delivering portfolio-grade artifacts including a full visual identity system and a rebuilt personal portfolio site, alongside a capstone project on Content Opportunity / Refresh Scoring.

Software / Automation Intern — Remote
CodeCelix — *2026 – Present*

- Co-built a Clinic Lead Generation System (n8n self-hosted on Oracle Cloud, Groq AI, Google Maps/Places API, WhatsApp Business Cloud API, Google Sheets) that fully automates discovery and qualification of 100+ clinic leads per week without manual outreach.
- Built FashionHub, an AI-powered fashion sales assistant using Node.js, MongoDB, Groq/LangChain, the Instagram Graph API, and n8n automation, with a React/Tailwind admin dashboard for managing conversations and orders.
- Built ZAIQA, an Instagram DM automation bot (Python/Flask, Meta Graph API) with a 10-category keyword-matching response engine, taking it through webhook verification and Meta App Review to production approval.
- Wrote LinkedIn posts and daily progress reports documenting each project's build process, decisions, and trade-offs.

EDUCATION

SZABIST Islamabad — Islamabad, Pakistan
Bachelor of Science in Artificial Intelligence — *June 2022 – June 2026*

Askaria College Saddar Rawalpindi — Rawalpindi, Pakistan
Intermediate in Computer Science (ICS) — *Feb 2020 – Feb 2022*

Amaranth Secondary School, Shalley Valley — Rawalpindi, Pakistan
Matriculation (Science) — *Jan 2018 – March 2020*

FINAL YEAR PROJECT

AI-Powered Video Surveillance & Analytics System — Islamabad, Pakistan
YOLOv8, DeepSORT, OpenCV, Flask, WebRTC — *2025 – 2026*

- Built a real-time multi-camera surveillance pipeline using YOLOv8 for detection and DeepSORT for multi-object tracking, streamed over WebRTC and served through a Flask backend, running at 15–25 FPS on CPU.
- Designed an event-driven alerting layer that flags anomalous activity automatically, reducing dependence on continuous manual monitoring.
- Revised the full technical report systematically to close gaps identified in supervisor feedback, tightening methodology and evaluation sections.

Live & Client Projects

INFILOFT — Luxury E-Commerce Platform | *Django, Next.js, PostgreSQL* | Creator & Full-Stack Dev 2025 – Present

- Independently designed and built a luxury fashion and jewellery e-commerce platform, live in production at infiloft.com with real customer payments — not a portfolio demo.
- Architected and deployed the full stack on a self-managed Hostinger VPS: Django backend, two Next.js applications (customer storefront and admin panel), PostgreSQL, Redis, Nginx, Gunicorn, and PM2, with SSL and DNS fully configured end-to-end.
- Implemented a JazzCash/EasyPaisa manual-transfer payment flow with cash-on-delivery priority, tailored to real local buyer behavior, plus Google OAuth for customer authentication.

Gym Management System | *React, Node.js, Express, PostgreSQL, Prisma, Socket.IO* | GitHub 2025

- Built and deployed a full gym management application for Body Reshaping Studio, a real client, running live on-site on the gym's Windows PC.
- Integrated a ZKTeco K50 biometric fingerprint device via a custom Python (pyzk) agent running as an NSSM Windows service, streaming attendance events in real time to the web app over Socket.IO.
- Solved a persistent device-connectivity and COM SDK debugging challenge to get reliable fingerprint enrollment working end-to-end in production.

TempoVis | *Python, Vision-Language Models, Multimodal Reasoning* | GitHub 2025 – 2026

- Designed a multimodal time-series reasoning concept that uses vision-language models to read matplotlib plot images directly, enabling human-expert-style interpretation of time series across any domain via an agentic reasoning loop.

AI/ML Projects

Autonomous Research Agent & RAG Chatbot | *LangChain, FAISS, Groq LLaMA3, Tavily* | GitHub 2026

- Built a LangChain ReAct agent that searches the web via Tavily and generates structured PDF research reports, and a separate FAISS-backed RAG chatbot that answers questions over PDFs with source-grounded citations.

Stock Price Forecaster & Real-Time Object Detection App | *TensorFlow, LSTM, YOLOv8, Gradio, Streamlit* | GitHub 2026

- Built a stacked-LSTM forecaster on live yfinance data generating 30-day price forecasts, and a YOLOv8 detection app covering 80 object categories from image upload or live webcam.

Sentiment Analyzer, Resume Screener & Caption Generator | *distilBERT, spaCy, BLIP, HuggingFace* | GitHub 2025

- Shipped a fine-tuned distilBERT sentiment classifier with batch CSV support, a semantic resume-to-JD matcher using sentence-transformers and spaCy NER, and a BLIP-based image captioning tool generating alt-text and hashtags.

Certifications

IBM Online
Generative AI: Introduction and Applications

Simplilearn Online
LangChain and Workflow Design Course

freeCodeCamp Online
Scientific Computing with Python

DeepLearning AI Online
Prompt Engineering

Technical Skills

Languages: Python, JavaScript/TypeScript, SQL, HTML/CSS
AI & Machine Learning: Supervised Learning, Computer Vision, Object Detection (YOLOv8, DeepSORT), NLP, Sentiment Analysis, Time-Series Forecasting, Neural Networks (CNN, RNN, LSTM)
LLMs & Agents: LangChain, RAG, ReAct Agents, Groq LLaMA3, FAISS, HuggingFace Transformers, Prompt Engineering, n8n Workflow Automation
Backend & Frameworks: Django, Node.js, Express, Flask, Next.js, React, TensorFlow, Keras, Scikit-learn, Streamlit, Gradio
Databases: PostgreSQL, MongoDB, MySQL, SQLite, Redis, Prisma ORM
Infrastructure & Deployment: Nginx, Gunicorn, PM2, VPS management (Hostinger, Oracle Cloud), SSL/DNS configuration, NSSM (Windows services)
Integrations & APIs: Meta/WhatsApp Business Cloud API, Instagram Graph API, Google Maps/Places API, Google OAuth, Socket.IO, JazzCash/EasyPaisa
Tools: Git, GitHub, VS Code, Jupyter Notebook, Linux