

AHMED AFZAL

Senior AI & ML Engineer

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AI Software Engineer with 3+ years building and deploying production-grade ML systems across sales automation, healthcare, legal, and content-authenticity domains. Specialized in LLMs, RAG pipelines, agentic AI, and computer vision, owning system architecture, performance optimization, and end-to-end deployment of scalable, secure, and compliant AI products.

WORK EXPERIENCE

Senior AI Engineer

Jun 2026 to Present

Sagaris · Remote · Virginia, USA

- Architect and build core modules of SAGARIS, an agentic multi-touch revenue OS that automates outbound sales across email, SMS, LinkedIn, and social channels.
- Engineered the multi-touch campaign orchestration engine driving 15+ step cross-channel sequences with per-contact channel deferral and reply-driven re-routing, lifting reply rates by 30%.
- Built the AI hyper-personalization engine generating context-aware outreach per prospect, improving positive-reply rates by 25% over templated baselines.
- Developed an in-house domain and mailbox warming subsystem, sustaining 98% + inbox deliverability across large-scale sending.
- Delivered agentic LLM features for the intelligent dialer with intent scoring and the real-time AI sales coach, orchestrated via MCP-based tooling.

Lead AI Engineer

Jan 2026 to Present

Orivfy · Contract · Remote · Texas, USA

- Built and enhanced Orivfy's AI-content detection engine, improving text-detection accuracy by 18% through passage-level and sentence-level classification models.
- Designed explainable-AI and provenance layers into the product architecture, delivering transparent, auditable results and reducing false positives by 22%.
- Engineered real-time multi-modal fingerprint analysis across text, image, and video generators, serving detection at sub-300 ms p95 latency.

Software Developer

Feb 2026 to Mar 2026

Ministry of Federal Education & Professional Training · Contract · Remote · Islamabad, Pakistan

- Built a CV-shortlisting desktop application to automate candidate screening for government hiring pipelines.
- Implemented CV splitting and OCR to parse bulk, multi-candidate documents into structured, machine-readable profiles.
- Developed a rubric-based analysis and ranking engine that scores and shortlists candidates against role-specific criteria.
- Generated per-candidate explainability detailing why each applicant passed or failed, enabling transparent and auditable decisions.

AI Engineer II

Sep 2025 to Jun 2026

National Center of Artificial Intelligence · Islamabad, Pakistan

- Led design and deployment of MedScribe, a real-time medical transcription and report-automation platform integrating ASR, speech, and NLP models with hospital EHR and PACS systems.
- Architected scalable, compliant healthcare AI pipelines, raising transcription accuracy to 94% and cutting report turnaround time by 65%.
- Owned performance optimization and deployment reliability, sustaining 99.9% uptime across live production clinical environments.
- Partnered directly with clinicians to validate accuracy and usability, driving adoption across 3 hospital departments.

SKILLS

Programming Languages

Python, JavaScript, TypeScript, Go

Frameworks & Libraries

TensorFlow, PyTorch, Scikit-Learn, OpenCV, Ultralytics, PandasAI, NumPy, Pandas, React, Next.js, Tailwind, Shadcn, OpenAI

Backend Development

Node.js, FastAPI, Flask, Django, Express, WebSockets, Sharding, Parallel Processing

Databases & Storage

MongoDB, Postgres, MySQL, Supabase, Pinecone, AWS S3, Cloudflare R2

Core ML

Model Training & Evaluation, Hyperparameter Tuning, Fine-tuning, MLOps, Tensor & Pipeline Parallelism

AI & ML

Neural Networks, CNN, RNN, Transformers, LangChain, Generative AI, MCP, Agentic AI, A2A

Tools & Infrastructure

CrewAI, Docker, Git, GitHub, AWS, Jenkins, GitHub Actions, Linux, Stripe, n8n, ComfyUI, Kubernetes

EDUCATION

B.S. Software Engineering

COMSATS University Islamabad

Jan 2021 to Jan 2025 · Islamabad, Pakistan

Intermediate, Pre-Engineering

Cadet College Kallar Kahar

Mar 2015 to Apr 2020 · Kallar Kahar, Pakistan

CERTIFICATES

LangChain: Chat with Your Data

DeepLearning.AI

Supervised Machine Learning: Regression & Classification

Stanford Online

Neural Networks and Deep Learning

Coursera

Multi-AI-Agent Systems with CrewAI

DeepLearning.AI

Convolutional Neural Networks

DeepLearning.AI

OCI 2024 Generative AI Professional

Oracle

Associate AI Engineer

Dec 2024 to Aug 2025

National Center of Artificial Intelligence · Islamabad, Pakistan

- Developed an AI-powered medical imaging platform, building DICOM viewers and computer-vision pipelines for diagnostic workflows.
- Integrated multimodal AI (medical imaging + language models) with backend services, reducing radiologist review time by 30%.
- Ensured scalability, security, and healthcare compliance across the platform.

Machine Learning Engineer

Jun 2023 to Nov 2024

DevHawks · Islamabad, Pakistan

- Built and deployed LLM-based legal-intelligence systems for Pakistani courts, designing RAG pipelines and fine-tuning domain-specific language models.
- Developed semantic search that accelerated legal research and document drafting by 50%, adopted by 200+ legal professionals.
- Contributed to AI-safety initiatives including deepfake detection and voice-cloning prevention, reaching 92% detection accuracy.

PROJECTS

AI-Powered Agentic DICOM Viewer

Intelligent 2D and 3D DICOM viewer with voice-based interaction and VLM-powered diagnostics for radiology imaging.

Orivfy

Real-time detector for AI-generated content, analyzing the unique fingerprints left behind by language models, image generators, and video-synthesis tools.

MedScribe

Medical transcription and report-automation tool integrating ASR and NLP with clinical systems.

ARTICLES

From Bubbles to Full Utilization: A Practical Guide to Pipeline Scheduling in Distributed Deep Learning

Medium · Apr 2026

Choosing the Right Parallelism Strategy in Distributed Machine Learning

Medium · Apr 2026

Understanding ZeRO vs Pipeline Parallelism: A Systems-Level Perspective

Medium · Apr 2026

Build a Computer Vision App with Azure Cognitive Services

Microsoft

What's New in React 19

Scrimba

Finetuning Large Language Models

DeepLearning.AI

OPEN SOURCE

Open Source Developer

Feb 2026

LlamaIndex · Science & Technology

- Fixed a docstore consistency bug (#15529) in LlamaIndex's delete_ref_doc, where nodes persisted because delete_from_docstore was hardcoded to False in the base class.
- Submitted PR #20990 to propagate the parameter across sync and async paths, with regression tests.

ACHIEVEMENTS

1st Place, AI Category

Dec 2024

COMSATS Project Expo

- Led the full development cycle of MedTalk (2-person team), a medical multimodal chatbot delivering report generation with radiology and cardiology diagnosis.
- Fine-tuned multimodal models to handle multiple radiology image modalities.

2nd Place, Hackathon

Feb 2024

NASCON

- Built a farmers' marketplace web platform end-to-end in 24 hours as a team of 3, working as backend developer.