

Aroosh Ahmad

AI/ML Engineer | LLM & NLP Specialist | Production-Ready Systems

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Lahore, Pakistan.

Summary

AI Engineer with 3+ years of experience delivering production-ready systems in NLP, computer vision, and LLM applications. Started as a Full-Stack Engineer before transitioning into AI/ML, combining backend engineering with advanced ML expertise. Proven impact: deployed OCR engines with ~98% accuracy, YOLOv5 media analysis systems cutting manual effort by 60%, and GPT-powered assistants. Skilled at building scalable ML pipelines, APIs, and Dockerized deployments.

Core Skills

AI/ML: PyTorch, Hugging Face, LangChain, RAG, FAISS, OpenCV, OCR, YOLOv5, Transformers, NLP, CV
Backend & APIs: FastAPI, Django REST, React.js, Node.js, .NET Core/MVC
Infra & Tools: Docker, Azure ML, GCP Vertex AI, Git, CI/CD

Work Experience

Center of Language Engineering, Lahore — AI Research Officer (Nov 2023 – Feb 2025)

- Led CNN-LSTM OCR engine for Urdu/Arabic/Farsi achieving ~98% accuracy, reducing CER from 3.4% to 2.3%.
- Developed YOLOv8-based live news ticker detection (~98% accuracy) for media pipelines.
- Refactored monolithic Django backend into modular API-first system; co-authored OCR research methodology.

Nodlays, Lahore — AI Engineer (Feb 2023 - Jan 2024)

- Engineered YOLOv7 pipeline for semiconductor DataMatrix recovery with Azure ML, automating QA and reducing manual review by 60%.
- Built GPT-3 powered fitness assistant with Django REST, enabling personalized real-time insights.
- Developed CNN/RCNN-based CAPTCHA solver and prototyped .NET Core pose estimation system.

Highbit Games, Lahore — Software Engineer (Jul 2022 – Dec 2022)

- Built background-removal API with OpenCV + Django REST achieving 92%+ segmentation accuracy.
- Contributed to GoIndia.care & Sensaware.io platforms with Django backends and React frontends, including Stripe/PayPal payment integrations.

ICRL Labs, KICS, UET — Machine Learning Intern (Aug 2021 – Jan 2022)

- Implemented ML pipelines for breast cancer detection using open-source datasets.
- Contributed to YOLO-based disease/tower component detection and OCR preprocessing workflows.

Freelance Developer — Fiverr (2019 – 2021)

- Delivered 20+ AI projects (classification, sentiment analysis, regression, OCR APIs).
- Built and deployed React, Node.js, and .NET MVC applications for international clients.

Selected Projects

Urdu OCR Engine — CNN-LSTM model for recognizing Urdu script (~98% accuracy).

YOLOv8 Live Ticker Detection — Automated news ticker extraction with ~98% detection accuracy.

AI Travel Assistant — RAG-powered assistant using LangChain + FAISS for flight/visa queries.

Background Removal API — OpenCV + Django REST service, achieving 92%+ segmentation accuracy.

Education

PUCIT, University of the Punjab — MPhil, Artificial Intelligence (Oct 2024 – Oct 2026)

Lahore Garrison University — B.S. Computer Science (Aug 2017 – Aug 2021)

Certificates

- **Machine Learning with Python** — Coursera (Sep 2021)
- **Deep Learning Essentials with Keras** — Coursera (Feb 2022)
- **Huawei AI Associate (HCIA-AI)** — Huawei ICT Academy (Nov 2021)