

YASMEEN AZMAT ALI

Aspiring AI/ML Engineer

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PROFESSIONAL SUMMARY

First-Class MSc Artificial Intelligence graduate (Ranked #1 in Program) with hands-on experience building real-time machine learning pipelines, NLP systems, and analytics dashboards. Proficient in Python, Apache Spark, Kafka, MongoDB, and Django. Adept at collaborating in distributed teams and passionate about deploying scalable AI solutions. Seeking a remote AI/ML Engineering or Data Science internship.

EDUCATION

MSc, Artificial Intelligence — University of West London, UK 2024 – 2025

- Graduated with First-Class Distinction — Ranked #1 in MSc AI Program

BSc, Computer Science — Capital University of Science and Technology, Islamabad, Pakistan 2019 – 2022

EXPERIENCE & RESEARCH

AI Research Project — Master's Dissertation — University of West London Jun 2025 – Sep 2025

- Architected a cloud-based, real-time Twitter sentiment analysis pipeline using Apache Kafka and Spark Structured Streaming.
- Trained and deployed multilingual NLP sentiment classification models integrated into a live streaming workflow.
- Built a live analytics dashboard for real-time monitoring using Django and MongoDB.
- Designed scalable preprocessing, evaluation, and deployment pipelines for continuous, large-scale tweet data.

Internship Trainer — Android & Software Development — TEGIC, Islamabad, Pakistan Oct 2022 – Dec 2022

- Gained hands-on experience in Android development and collaborative software project workflows.
- Assisted development teams with real-world application modules and debugging practices.

Pulmonary Fibrosis Progression Detection System — Final Year Project — Capital University of Science and Technology 2021 – 2022

- Built an ML-based web system predicting disease progression from medical imaging datasets.
- Integrated trained Scikit-learn models within a Django healthcare platform with preprocessing pipelines.
- Stack: Python, Django, Scikit-learn.

TECHNICAL PROJECTS

Clerkly — AI-Powered Paperwork Agent — AWS "Agents for Humans" Hackathon (Team Project)

- Owned backend architecture and development (frontend/UI built by a teammate); led integration of both halves into a working full-stack application.
- Built a multi-agent system with the Strands Agents SDK that reads, analyzes, and acts on everyday paperwork (documents, emails, payments, signatures), reducing manual administrative tracking.
- Designed a three-layer AI fallback (Amazon Bedrock Nova Lite → OpenAI GPT-4o → deterministic rule-based extraction), plus a hardcoded safety layer blocking any payment or signature action without explicit human approval.
- Built multi-tenant organization architecture (owner/admin/member roles, invites, scoped access control) with FastAPI, SQLAlchemy, and JWT authentication.
- Integrated Stripe (payments), DocuSign (e-signature), and the Gmail API (email intake) with full audit logging of every task event.
- Stack: Python, FastAPI, SQLAlchemy, Amazon Bedrock, OpenAI, Next.js, Tailwind CSS.
- GitHub: github.com/yasmeenmh90-beep/Clerkly

Multi-Agent RAG — Grounded Research Assistant — Hackathon Project (Solo)

- Built a 7-agent RAG pipeline with LangGraph that routes queries across domain-specific retrievers and verifies each answer against retrieved evidence with a critic agent, triggering a rewrite-and-retry loop instead of returning an unverified answer.
- Implemented hybrid retrieval (dense + BM25 via Reciprocal Rank Fusion) with optional cross-encoder reranking, and an autonomous Literature Review Generator that searches arXiv/Semantic Scholar and produces a per-claim-cited review exportable as PDF.
- Designed a two-service architecture (FastAPI for agents/model calls, Django for dashboard/persistence) with streaming chat responses and conversation history.
- Stack: LangGraph, LangChain, Chroma, FastAPI, Django, Docker, RAGAS.
- GitHub: github.com/yasmeenmh90-beep/multi-agent-rag-research-assistant

CERTIFICATIONS

IBM RAG and Agentic AI — Professional Certificate

Coursera / IBM Skills Network — 10-course specialization covering RAG, agentic AI, LangChain, LangGraph, CrewAI, AutoGen, BeeAI, MCP, and multimodal generative AI applications.

Certificate: coursera.org/verify/professional-cert/9GFFID3MYTMF

Accomplishment page: coursera.org/account/accomplishments/specialization/9GFFID3MYTMF

SKILLS

- AI / Machine Learning: Machine Learning, Deep Learning, NLP, Sentiment Analysis, Model Evaluation & Deployment
- Data & Backend: Python, SQL, JavaScript, Django, REST APIs, Pandas, NumPy, Scikit-learn
- Big Data / Systems: Apache Spark (Structured Streaming), Apache Kafka, MongoDB
- Dev Tools: Git, GitHub, Linux/Ubuntu, VS Code
- Soft Skills: Effective Communication, Team Collaboration, Problem-Solving, Adaptability
- Languages: English (Fluent), Urdu (Native)