Kashif Alam
AI/ML Engineer
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Location: Islamabad,

EDUCATION

University of Engineering & Technology — **Peshawar, Pakistan**
Bachelor's Degree in Computer Systems Engineering — *(Sept 2021 - July 2025)*
Government Post Graduate College Mardan — **Mardan, Pakistan**
Pre-Engineering — *(June 2019 - June 2021)*

WORK EXPERIENCE

AI Engineer | C4micro (Islamabad, Pakistan) *(September 2025 – present)*

- Designed and deployed generative-AI systems (RAG/NLP) and robust document ingestion \& embedding pipelines OCR, table/figure extraction, semantic chunking, metadata-aware/incremental embeddings to improve retrieval accuracy and enable AI-driven support and lead-generation workflows; containerized services and documented architecture for reproducible deployments.
- Built and productionized computer-vision and ML workflows real-time object detection and anomaly detection for edge use, end-to-end data-science pipelines for annotation/augmentation/model evaluation, and integrated vision features with generative-AI components through cross-functional collaboration.
- Technologies Used: Python, Transformers, RAG, OCR, Embeddings, YOLOv8, OpenCV, TensorFlow, PyTorch, Docker, Postgres, Qdrant, FastAPI, NLP

PROJECTS

RAG Production App — Retrieval-Augmented Generation for PDF documentation

Built a production-ready RAG pipeline to ingest, semantically index and query PDF documentation using Python, FastAPI, OpenAI embeddings, Qdrant, Inngest and Streamlit; implemented robust chunking, batching/retry for embeddings and a low-latency vector search layer.

Technologies: Python, FastAPI, Streamlit, OpenAI embeddings, Qdrant, Inngest, Docker

Transformer RAG

Developed a Python-based RAG system for Transformer architecture queries. Built advanced PDF ingestion with Docling, pdfplumber, PyMuPDF, and pytesseract (OCR), using Qwen2-VL-2B-Instruct for image/formula descriptions. Implemented semantic chunking (LangChain, sentence-transformers), FAISS retrieval, Mistral AI generation, and Flask UI. Optimized for CPU, handling new PDFs incrementally.

Technologies: Python, Docling, Flask, FAISS, Transformers, Mistral AI, Qwen2-VL, LangChain

Virtual Try-On: Transforming Fashion Into AI And Realistic Simulation (FYP)

Developed an AI-powered virtual try-on system (IDM-VTON) leveraging state-of-the-art deep learning to overcome logo distortion, garment warping, and fabric realism challenges. Optimized online retail experiences through precise fit visualization, brand authenticity preservation, and scalable garment simulation.

SKILLS SUMMARY

- **Languages:** Python, C++, SQL, Bash
- **Frameworks & Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Plotly,
- **Data Handling:** SQL, SQLite
- **Tools & Platforms:** Transformers (Hugging Face), sentence-transformers, LangChain, FAISS, pdfplumber, PyMuPDF, pytesseract
- **Areas of Expertise:** Machine Learning (Supervised & Unsupervised), Deep Learning (CNNs, Transfer Learning, Transformers, Vision-Language Models like Qwen2-VL), Exploratory Data Analysis (EDA), Data Visualization (Matplotlib, Seaborn, Plotly), Natural Language Processing (NLP), Retrieval-Augmented Generation (RAG), Computer Vision (Image Description, OCR), Document Ingestion & Processing (PDFs, Tables, Graphs, Formulas)
- **Soft Skills:** Problem-Solving, Teamwork, Leadership, Communication, Fast Learner

CERTIFICATIONS

- **100 Days of Code: The Complete Python Pro Bootcamp** *(2023)*
- **AI/ML Concepts** — Followed YouTube tutorials by CampusX and Krish Nik *(2024)*
- **Machine Learning** — Specialization led by Andrew Ng (DeepLearning.AI + Stanford Online) *(2023)*
- **SQL Fundamentals** — via Apna College and W3Schools tutorials. *(2024)*