Asad Ijaz

Data Scientist | AI & Automation Developer

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SUMMARY

Data Scientist who takes problems from raw data to working software: cleaning and modeling data, then shipping predictive models and LLM agents inside apps and pipelines. Builds churn-prediction and recommender models and agentic RAG systems with LangGraph; four containerized AI apps published on Docker Hub (**288 combined pulls**). Python-first, backed by SQL, Laravel, C++ and C#.

TECHNICAL SKILLS

Languages	Python, SQL, PHP, C++, C#, .NET
Machine Learning	scikit-learn, TensorFlow, Keras, PyTorch, MLflow, CNNs, LSTMs, transfer learning, churn prediction, recommenders
Data Analysis	Pandas, NumPy, SciPy, Matplotlib, Plotly, exploratory data analysis
LLM & Agentic AI	LangGraph, LangChain, agentic RAG, hybrid search (dense + BM25), reranking, FAISS, ChromaDB, multi-agent workflows, tool calling, Gemini, Groq
Backend & Tools	Laravel, Flask, FastAPI, Streamlit, MySQL, SQLite, Docker, Selenium, Git, GitHub

EXPERIENCE

Data Scientist | *Optimum Tech, Punjab, Pakistan* — **Jul 2026 – Present**

- Build and evaluate Python machine learning models for predictive analytics, end to end from data preparation to evaluation.
- Clean and analyze data with Pandas, NumPy and SQL, and present findings as Matplotlib and Plotly visuals stakeholders can act on.

Freelance AI & Backend Developer | *Self-Employed, Remote* — **Feb 2026 – Present**

- Design and ship LLM agents and agentic RAG chatbots with LangGraph, Groq and Gemini, covering retrieval, tool calling and self-correction, delivered through Streamlit or web front ends.
- Automate manual workflows in Python (personalized bulk email, content publishing, Selenium web scraping) and build backend services with Laravel, Flask and MySQL.
- Containerize and ship applications with Docker; four AI apps published on Docker Hub (**288 combined pulls**).

Laravel Developer | *Optimum Tech, Punjab, Pakistan* — **Jan 2024 – Dec 2025**

- Built and maintained backend and frontend features for Laravel web applications powered by MySQL.

PROJECTS

Telecom Customer Churn Prediction — *Python · SQL · Streamlit*
End-to-end churn pipeline: SQL data normalization, exploratory analysis, model training and an interactive Streamlit app.

Agentic RAG with Hybrid Search and Reranking — *LangGraph · BM25 · Cross-encoder · Docker (149 pulls)*
Routes each question, retrieves with dense + BM25 hybrid search, reranks with a cross-encoder, grades results and self-corrects.

JARVIS Personal AI Assistant — *LangGraph · RAG · Voice (Urdu + English)*
Voice assistant behind a wake word and PIN; a LangGraph agent orchestrates 35 tools (scheduling, email, research, maps, browser automation) with RAG over WhatsApp and local files.

Autonomous LinkedIn Publisher — *LangGraph · Multi-agent · Docker (48 pulls)*
Multi-agent pipeline that finds a trending data science topic, researches it, writes the post, fact-checks it and publishes it.

AI Email Dispatcher — *LangGraph · Gemini · Streamlit · Docker (46 pulls)*
Streamlit app where a Gemini-powered LangGraph workflow writes, themes, illustrates and sends personalized bulk email.

Aura Accessories Shopping Assistant — *LangGraph · Groq · RAG*
Agentic RAG chatbot for a luxury fashion brand: a Groq ReAct agent decides when to search product data or answer directly.

University Timetable Management System — *Flask · MySQL*
Scheduling web app with Admin, Teacher and Student roles, a 7-table schema and automatic clash detection.

Machine Learning and Deep Learning Projects — *TensorFlow · Keras · scikit-learn*
California housing ANN tuned with Keras Tuner (Hyperband); CNNs for CIFAR-10 and MNIST (augmentation, batch norm, dropout, AdamW); MobileNetV2 transfer learning; LSTM next-word predictor; recommendation systems.

EDUCATION

BS Computer Science | *University of Agriculture, Faisalabad, Pakistan* — **Sep 2024 – Aug 2028 (Expected)**

INTERNSHIPS & CERTIFICATIONS

Internships: AI Engineer Internship (Optimum Tech) • Backend Development Internship
Certifications: The Ultimate Job Ready Data Science Course • Data Science Essentials with Python