

MUHAMMAD MUAVIA

Data Scientist

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[GitHub](#) | [LinkedIn](#) | [inventacore.org](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Data Scientist with hands-on experience building end-to-end ML pipelines, LLM-powered agent systems, and full-stack AI applications. Skilled in Python, scikit-learn, FastAPI, and modern AI frameworks (LangChain, LangGraph, MCP). Built and shipped multiple AI products across hackathons and production environments. Founder of InventaCore, delivering AI solutions for businesses. Seeking roles where I can apply data science and agentic AI skills to solve real-world problems.

EDUCATION

Bachelor of Science in Computer Science

2022 – 2026

Iqra University, Islamabad

- Coursework: Algorithms, Data Structures, AI & ML, Statistics, Database Systems, HCI

PROFESSIONAL EXPERIENCE

Company

2025 – Present

InventaCore — AI Solutions Company (inventacore.org)

- Founded an AI solutions startup focused on building intelligent products and data-driven tools for businesses.
- Developing and delivering custom AI agents, data analytics platforms, and ML-powered automation solutions.

Data Analyst Intern

2024

Ministry of Human Rights — Pakistan

- Cleaned and visualized large government datasets using Python and Power BI to surface trends informing national human rights policy.
- Built interactive dashboards adopted by cross-functional policy and legal teams to track key human rights indicators.
- Contributed to official ministry reports that informed government decision-making processes.

FEATURED PROJECTS

DataVerse AI — Intelligent Data Analysis Platform

2024 – 2026

Final Year Project | Python, FastAPI, Next.js, React, scikit-learn, Supabase

- Built a two-agent AI data science backend that parses CSV/XLSX datasets, runs automated EDA, computes business metrics, and generates predictive ML models with explainability (SHAP/Feature Importance).
- Implemented semantic column mapping, trend detection, correlation analysis, outlier flagging, and downloadable reports all deterministic with optional LLM narration.
- Full-stack with React frontend, Supabase auth, session-based multi-dataset analysis, and 10 passing E2E tests.

github.com/MaharMuavia/DataVerse_Ai

MemoPilot IQ — Persistent-Memory AI Agent

2026

Qwen Global AI Hackathon | Python, FastAPI, React, Qwen Cloud, Alibaba Cloud, Docker

- Designed a self-improving memory agent (MemoryOS) that extracts 12 structured memory types from conversations, scores them with a hybrid retrieval formula (semantic + importance + recency), and manages a strict 2,500-token context budget.
- Built forgetting engine that expires deadlines, archives stale memories, and supersedes contradicted decisions with full transparency via a Memory Trace UI.
- Includes evaluation benchmark, reflection engine, live memory graph visualization, and dual-mode deployment (local SQLite / Alibaba Cloud Tablestore + OSS).

github.com/MaharMuavia/memopilot-iq

Microsoft Agents League Hackathon | Python, Multi-Agent System, AWS Bedrock

- Built a multi-agent system that analyzes failed ML experiments, identifies root causes, and maps failures to certification learning gaps using reasoning agents.
 - Implemented a Planner module with TF-IDF KnowledgeIndex and confidence scoring for structured failure diagnostics.
- github.com/MaharMuavia/failurelens_iq

AI Khata — Voice-Powered AI Ledger

2026

Python, Google Gemini, Speech Recognition

- Built a voice-powered AI ledger for small businesses record sales, expenses, and udhaar (credit) in Urdu using Google Gemini for natural language processing.
 - Targets underserved small shopkeepers in Pakistan who manage finances verbally rather than digitally.
- github.com/MaharMuavia/ai-khata1

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript

ML / AI: scikit-learn, TensorFlow, PyTorch, Predictive Modeling, NLP, LLMs (OpenAI, Claude, Qwen)

Agentic AI: LangChain, LangGraph, MCP (Model Context Protocol), Multi-Agent Orchestration, RAG Pipelines

Data & Analytics: Pandas, NumPy, EDA, Data Cleaning, Power BI, Plotly, SHAP/LIME

Backend & Frontend: FastAPI, Next.js, React, Node.js, Tailwind CSS

Databases: PostgreSQL, MongoDB, Supabase, Pinecone, ChromaDB, Firebase

DevOps & Cloud: Docker, Git, GitHub Actions (CI/CD), Alibaba Cloud, Azure, Vercel

CERTIFICATIONS

Building with the Claude API — Anthropic | June 2026 | [Verify](#)

Introduction to Model Context Protocol — Anthropic | April 2026 | [Verify](#)

Introduction to Agent Skills — Anthropic | Certificate of Completion

AI Fluency: Framework & Foundations — Anthropic | Partners: UCC, Ringling College, HEA, National Forum

Claude Code in Action — Anthropic | Certificate of Completion

Deloitte — Data Analytics Job Simulation — Forage | May 2026

Apsara Clouder — AI: Generative AI — Alibaba Cloud Academy | Valid through April 2028

REFERENCES

Dr. Syed Irfan Sohail

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