

MUHAMMAD SUDAIS

AI Engineer | Agentic AI · LLM Applications · RAG Systems

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PROFESSIONAL SUMMARY

AI engineer who treats retrieval, verification, and memory as built-in parts of every serious system, not extras bolted on later. Has shipped a hybrid-RAG compliance copilot, a self-correcting desktop agent, and conversational analytics that turn plain questions into fully cited answers. Grounded in real machine learning — scikit-learn models, careful feature work, honest evaluation — with the frontend craft to put every build in front of its users. Fluent in Next.js and FastAPI; every system ships deployable, auditable, and candid about its limits.

EDUCATION

Shifa Tameer-e-Millat University, Malakand, Pakistan Sept 2024 – June 2028

Bachelor of Science in Artificial Intelligence · CGPA: 3.12 / 4.0

CERTIFICATIONS

Machine Learning Specialization — DeepLearning.AI & Stanford Online 2025

Supervised Machine Learning: Regression and Classification — DeepLearning.AI 2025

Advanced Learning Algorithms — DeepLearning.AI 2025

Unsupervised Learning, Recommenders & Reinforcement Learning — DeepLearning.AI 2025

Programming for Everybody (Getting Started with Python) — University of Michigan 2025

TECHNICAL SKILLS

Languages & Core: Python, Java, JavaScript, TypeScript, SQL, PHP, HTML & CSS

AI Engineering: RAG (hybrid keyword + semantic retrieval, cross-encoder reranking), LLM Integration, AI Agents (planning–execution–verification–recovery), TrOCR, Xenova Transformers, Prompt Design

Data & ML: pandas, NumPy, scikit-learn, Matplotlib, Naive Bayes, TF-IDF, Feature Engineering, Model Tuning

Web & Full-Stack: Next.js, React, Node.js, Express.js, FastAPI, Prisma, MongoDB, SQLite, REST APIs, WebSockets / SSE, NextAuth

Tools & Platforms: Git & GitHub, Linux (Ubuntu), Jupyter, VS Code, Google Colab, Vercel, Netlify, Railway, AWS S3, Zod

PROJECTS

Nexus Data AI — Conversational Data-Analysis Platform 2026

Full-Stack AI Developer | Personal Project — Live: [nexus-data-ai.netlify.app](#)

A conversational data-analysis platform: upload a CSV, Excel, JSON, or SQLite file and ask in plain English. It profiles the data as it arrives, answers with real pandas runs streamed live, checks for outliers and missing values, and exports charts plus PDF, PPTX, and notebook reports.

Stack: Next.js, FastAPI, pandas, Python, SSE · Netlify

TradeReady AI — Evidence-Backed Trade Compliance Copilot 2026

Full-Stack AI Developer | Personal Project — Live: [tradereadyai-production.up.railway.app](#)

A compliance copilot for import and export work. A hybrid RAG engine — SQLite FTS5 keyword search fused with semantic retrieval and cross-encoder reranking — makes every answer come with exact, citable evidence, while TrOCR reads invoices, packing lists, and bills of lading directly. A fault-tolerant local-embedding queue keeps it all running — with zero paid AI APIs.

Stack: Next.js, React, TypeScript, Prisma, SQLite, FTS5, Transformers · Railway

JARVIS-X — Intelligent Desktop Automation Agent 2026 – Present

AI Engineering Developer | Personal Project

A self-correcting automation agent for Windows: every task passes through planning, execution, verification, and recovery — and a failure always teaches it. Its persistent memory keeps lessons and reuses winning strategies after restarts. Permission policies, protected paths, and audit logging ship as standard.

Stack: Python, Windows Automation APIs, PowerShell, Persistent Memory System

Spam Email Detection 2025

ML Developer | Independent Project

A spam filter built in Python: Naive Bayes with TF-IDF reaches 96%+ accuracy on real email data, backed by a clean pipeline — tokenization, stop-word removal, stemming — and measured with a confusion matrix plus precision and recall.

Stack: Python, scikit-learn, Naive Bayes, TF-IDF, pandas

Budget & Expense Tracker Sept – Nov 2025

Full-Stack Developer | University Project

A personal-finance manager in PHP and MySQL: it records income and expenses through full CRUD with live validation, shows spending as interactive charts, and warns before a budget is crossed.

Stack: PHP, MySQL, HTML, CSS, JavaScript

Live Weather Tracker & Quote Scraper 2025

Python Developer | Personal Project

Two small Python utilities: a live weather app on the OpenWeatherMap API that auto-saves results and handles errors gracefully, and a polite quote scraper built on BeautifulSoup with clean UTF-8 output — both run unattended without breaking.

Stack: Python, OpenWeatherMap API, BeautifulSoup

Personal Portfolio Website — Evidence-First AI Showcase 2026

Full-Stack Developer | Personal Brand

A hand-built Next.js 15 and React 19 personal site where every claim can be checked: project pages carry live links, real screenshots, and auto-generated social cards, and a truth-audit script compares what the site says with what the code does — the brand only shows what is provably real. · Live: [https://muhammad-sudais-portfolio-817.netlify.app](#)

Stack: Next.js 15, React 19, TypeScript, App Router, Open Graph Images, Truth-Audit Tooling

Open to AI-agentic & full-stack builds — freelance projects, applied automation, and hands-on AI engineering — remote or Islamabad-based.