

DANISH SHAHZAD

+923332341423 | me@danishagentic.com | linkedin.com/in/danishshahzad17 | github.com/Danish7861 | danishagentic.com | youtube.com/@DanishShahzadAI

OBJECTIVE

AI Developer & Data Scientist with 6+ years of experience delivering 100+ global projects in NLP, machine learning, and generative AI. Proven expertise in LLM integration, chatbot development, agentic workflows, and AI-driven automation using Python, LangChain, and TensorFlow. Specialized in streamlining business operations through intelligent automation and data science solutions across industries including e-commerce, healthcare, and finance.

WORK EXPERIENCE

Agentic AI Developer & Data Scientist	(Remote – Self-Employed) Dec 2018 – Sep 2024
- Delivered 100+ AI and data science projects across NLP, automation, and predictive modeling for clients in the US, UK, UAE, and beyond. - Designed and deployed document-based Q&A systems and AI chatbots that reduced support workload by 60%. - Engineered LLM-powered workflows using LangChain, OpenAI, and FastAPI for use cases in healthcare and e-commerce. - Automated reporting and analytics dashboards using Streamlit and Plotly, boosting decision-making efficiency by 40%. - Recognized consistently for delivering high-impact solutions with strong communication and client satisfaction.	
E-Commerce Strategy Consultant (Remote)	Baby Product Category UK Jan 2021 – Dec 2023
- Increased product visibility and revenue by 30% through optimized Amazon listing strategies and dynamic pricing algorithms. - Led the automation of inventory and sales tracking systems, reducing manual effort by 75%. - Directed a team of 5 across sourcing and logistics to enhance marketplace competitiveness. - Applied data-driven frameworks to improve conversion rates and align marketing spend with ROI goals.	

PROJECTS

Multi-PDF Chat – AI-Powered Document Q&A System (DEMO)	(GitHub Link)
Technologies: LangChain, Google Gemini AI, FAISS, PyPDF2, Streamlit, Python	
- Developed a multi-document conversational AI application enabling users to interact with multiple PDFs via natural language. - Extracted and chunked PDF content using PyPDF2 and LangChain’s RecursiveCharacterTextSplitter, embedded with GoogleGenerativeAIEmbeddings. - Stored vector embeddings in FAISS for real-time semantic retrieval and routed user queries to Gemini AI for accurate, context-aware answers. - Built a responsive UI with Streamlit, including upload capabilities, chat interface, and custom sidebar with profile display.	
TripCraft AI – Agentic Travel Planner (DEMO)	(GitHub Link)
Technologies: LangGraph, Tavily Search API, FastAPI, FPDF, JavaScript, HTML/CSS	
- Developed an AI-powered travel itinerary planner generating complete trip plans based on user inputs like origin, destination, budget, travel mode, and preferences. - Designed a modular agent workflow with LangGraph, incorporating memory and tool usage for reasoning and step-wise trip generation through agentic architecture. - Implemented PDF export with FPDF and dynamic UI updates using JavaScript and markdown for real-time, interactive planning. - Built a fully responsive frontend with animations, loading spinner, and mobile-first layout, integrated with a FastAPI backend for dynamic plan and PDF generation.	
AI Customer Support System for E-Commerce (DEMO)	(GitHub Link)
Technologies: LangChain, OpenAI Embeddings, Pinecone, Streamlit, Python, GitHub Actions	
- Built an intelligent customer support agent for an e-commerce business using LangChain, OpenAI embeddings, and Pinecone for semantic search. - Developed real-time conversational interface using Streamlit and integrated LangChain RetrievalQA with custom prompts for accurate, brand-aligned responses. - Deployed CI/CD using GitHub Actions and Streamlit sharing, with automated linting, testing, and environment configuration.	
Car Price Prediction Web App (ML + FastAPI Deployment) (DEMO)	(GitHub Link)
Technologies: Python, scikit-learn, FastAPI, HTML/CSS, Jinja2, pandas, numpy, GridSearchCV	
- Developed a car price prediction system using SVM, Linear Regression, and Random Forest; performed hyperparameter tuning and selected Random Forest based on lowest RMSE and MAE scores on validation data. - Deployed the trained model using FastAPI and built a modern, responsive web app with HTML, CSS, and Jinja2 templates to deliver real-time car price predictions. - Engineered features with categorical encoding, ordinal mapping, and log-transformation; integrated a complete preprocessing + modeling pipeline using scikit-learn and exported as a single .pkl file for inference.	

TECHNICAL SKILLS

Languages: Python | **APIs & Web:** FastAPI | **Vector Databases:** FAISS, ChromaDB, Pinecone
AI & Machine Learning: Supervised & Unsupervised Learning, Predictive Modeling, Statistical Analysis, Deep Learning (ANN, TensorFlow, Keras), LLM Integration, Conversational AI, scikit-learn | **Statistical Techniques:** Hypothesis Testing, Statistical Significance, Regression, Clustering, Model Optimization
Natural Language Processing (NLP): Text Classification, Sentiment Analysis, Chatbot Development, Embedding Models, RNN, LSTM, Encoder-Decoder, Attention Mechanisms, Transformer Models, BERT, GPT | **Frameworks & Tools:** Jupyter Notebook, Streamlit, spaCy, NLTK, dotenv, PyPDF2
Generative AI: OpenAI, Gemini, Claude, HuggingFace, Retrieval-Augmented Generation (RAG), Embeddings, LLM Fine-tuning, RLHF, AI Agents
LLM Frameworks: LangChain, LangGraph | **Data Handling & Visualization:** Exploratory Data Analysis (EDA), Data Wrangling, Matplotlib, Seaborn, Plotly

EDUCATION

NED University of Engineering and Technology	(Bachelor of Automotive Engineering) 2014– 2018
Graduated with 2nd Position, specializing in automotive systems design with a final-year project on smart car design focusing on hybrid driveline efficiency.	

DIPLOMA

Certified Cloud Native Applied Generative AI Engineer	PIAIC – Karachi, Pakistan (Feb 2023 – Jun 2024)
Gaining hands-on experience with LangChain, LangGraph, RAG, OpenAI SDK, and cloud-native technologies, applying generative AI techniques to real-world scenarios and cloud deployments.	
Amazon Private Label & FBA Wholesale Diploma Tracks	Extreme Commerce, Karachi, Pakistan (Jan 2022 – Jul 2022)
Completed comprehensive training in private label and wholesale business models on Amazon, specializing in product research, sourcing, brand building, supplier negotiations, inventory management, and market analysis.	
Artificial Intelligence	PIAIC – Karachi, Pakistan (Jan 2019 – Jan 2021)
In-depth study of machine learning, data science, and AI methodologies, with practical projects in predictive analytics and AI-driven solutions.	

CERTIFICATION

Python for Data Science, AI & Development, IBM. Python 101 for Data Science, Cognitive Class (IBM). Machine Learning Foundations: A Case Study Approach, Coursera. AI For Everyone, DeepLearning.AI (Coursera). Machine Learning, Stanford University (Coursera).	Neural Networks and Deep Learning, DeepLearning.AI. Generative AI Application Developer, Pak Angels. Introduction to Programming using Python, Microsoft. Power BI: Dashboards for Beginners, LinkedIn Learning. Data Analytics: Graph Analytics, LinkedIn Learning.
--	---