

MUHAMMAD SHAHRAYAR

Certified AI Engineer | Agentic AI | Data Scientist | Kaggle Master

CONTACT INFORMATION

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CAREER OBJECTIVE

Experienced AI Engineer and Data Scientist with 3 years of experience in delivering machine learning, generative AI and NLP solutions across healthcare, finance and logistics domains. Proven ability to design and deploy deep learning, generative and agentic AI systems that drive measurable business outcomes. Successfully delivered healthcare AI applications in production for US customers. Passionate about innovation, automation and translating advanced AI capabilities into real-world impact.

WORK EXPERIENCE

• Data Scientist II (AI/ML)

Blutech Consulting, Islamabad
Nov 2025 - Present

- Worked for STC bahrain and developed an Agentic Ops Automation system to monitor long-running SQL queries in a Cloudera cluster and generate automated alerts, used Agents SDK, qwen2.5-coder, django and gradio.
- Built an AI regulatory audit agent for myABL (Allied Bank) using OpenAI Agents SDK and GPT-4o that autonomously maps State Bank policies to audit documents, cutting research effort by 70% and improving audit accuracy.
- Developed an end-to-end forecasting pipeline for STC bahrain, leveraged statistical models and LLMs to analyze trend and seasonality, train multiple models based on statistical profile and rank model performance based on MAPE score.
- Developed a generative AI based chatbot for finance users to interact with the forecasting system.
- Working as a FDE for HBL, developing an AI-based Informatica DEI pipeline automation agent with an agentic chatbot interface, using a locally-hosted LLM (Ollama) to automate health checks, error classification and auto-recovery, eliminating manual pipeline monitoring in a regulated banking environment.

• AI Engineer

CareCloud
Aug 2024 - Nov 2025

- Led a team of 3 junior AI Engineers on multiple AI initiatives within CareCloud Breeze (Experience Management).
- Worked closely with clinical team on various projects including AI medical specialties (Physical Medicine & Rehabilitation, Chiropractor) and developed an AI software that analyze patient-doctor conversation and extract important clinical documentation.
- Integrate Google Grounding into LLM workflow to suggest latest ICD and CPT code, achieved 80% accuracy.
- Automate medical billing process using AI and Data science tools. Reduced processing time to 2min from 10 min.
- Developed and deployed LLM chatbot application (Cirrus Insights) that recommends personalized diet and exercise plans based on users medical history.
- Developed and deployed AI based smart medical appointment rescheduling system that recommends slots based on patient's past history and doctor's availability, used SQL DB, OpenAI Agents, Gemini reasoning LLM and Django API.
- Developed a chatbot for patients to schedule new medical appointment with preferred doctor using SQL DB, OpenAI Agents, Gemini reasoning LLM, ElevenLab text to speech API and Django.
- Developed an AI based login module for patient's convenience that allow to authenticate via voice or text command.
- Developed a RAG based application (SmartDoc) that allows patients to query their medical documents and receive accurate and context-aware answers using Gemini LLM.
- Performed audio call auditing for a client using OpenAI whisper and speaker diarization models like AssemblyAI.
- Worked for Fox group and developed their caregiver education, Home exercise programs (HEP) components.
- Currently working on single conversational AI chatbot for all carecloud's breeze features.

• Executive Data Scientist

Truck It In
Feb 2023 - July 2024

- Analyzed all shippers profiles and developed a scoring mechanism to segment them into active, churned and dormant shippers. As a result of my report, the commercial team successfully reactivated 42% of dormant shippers.

- Developed a business development KPIs dashboards to analyze the efficiency of dispatchers on a daily, weekly and monthly basis using Python, SQL, Google Sheet and Power BI.
- Developed automated bots that streamlined company-wide reporting processes that improves efficiency and accuracy.
- Scrapped data from various sources for a wide range of departments, including marketplace, HR and marketing.
- Developed and deployed a machine learning model for buying prediction with R2 Score of 94%.
- Developed an automated system for scrapping trucking demands from WhatsApp groups and add them on google sheet for customer service team.
- Developed and managed the monthly regional closing process to ensure accurate and timely finalization of GMV and NM for P&L reporting.

EDUCATION & CERTIFICATIONS

• Bachelor of Science in Software Engineering International Islamic University Islamabad (IIUI)	Sep 2018 - June 2022 CGPA: 3.46
• Data Science & Machine Learning Dice Analytics Islamabad	Oct 2022 - Dec 2022 Rank: 1st
• Artificial Intelligence Developer (AI) Presidential Initiative for Artificial Intelligence & Computing (PIAIC)	Jun 2019 - Feb 2021 Percentile: 80.66
• Agentic and Robotic AI Engineering Presidential Initiative for Artificial Intelligence & Computing (PIAIC)	Dec 2024 - Ongoing (Weekend classes)

PERSONAL PROJECTS

- **RAG Application for Employee Handbook**
 - Developed a RAG project using LangChain that chunks and embedd employee handbook and store in Malvius vector DB.
 - Built the frontend interface using Gradio for user friendly interaction with the document.
- **Conversational AI Agent for Healthcare Automation**
 - Developed an AI voice agent using VAPI and Django to automate hospital appointment scheduling, rescheduling and canceling, reducing the need for human customer support.
 - Implemented custom function/tools calling to allow the agent to interact with a backend database for real time availability checks, booking and cancellations.

All personal projects: <http://bit.ly/4ICv7QP>

SKILLS

- **Programming Languages:** Python, SQL.
- **Agentic AI:** OpenAI Agents SDK, Tool/Function calling, ElevenLab's voice agents, VAPI, MCP, OpenClaw.
- **Generative AI:** OpenAI, Gemini, Ollama, OpenRouter, RAG, Vectorless RAG, LiteLLM, LangChain, HuggingFace.
- **Machine Learning & Deep Learning:** Scikit-learn, TensorFlow, NLTK (Natural Language Toolkit).
- **Data Analysis & Manipulation:** Pandas, Numpy, Request, Beautiful soup, Excel, Google Sheets.
- **Data Visualization:** Matplotlib, Seaborn, Plotly, Power BI.
- **API and Prototype Development:** Flask, Django, Streamlit, Gradio.
- **Cloud Platforms:** Google Cloud Platform (GCP), Vertex AI.
- **Tools & Technologies:** VS Code, Claude Code, Cursor, Anaconda, Postman, Redash, DBeaver.
- **Version Controlling:** Git & GitHub, Azure Devops.
- **Deployment:** Docker.
- **Package Manager:** pip, uv.
- **Areas of Expertise:** Artificial Intelligence (AI), Data Science, Data Analysis, Healthcare Analytics, Marketplace Analytics, Forecasting, Web Scraping, Automation, Machine Learning (ML), Deep Learning (DL), Generative AI and LLM, Agentic AI