**Muhammad Abdullah Riaz**

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**Work Authorization**: GC (no sponsorship req.)

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**ABOUT ME**

AI/ML Engineer with a passion for crafting customer-centric AI solutions. Proven ability to deliver successful proof-of-concepts (POCs) leveraging Large Language Models (LLMs) and other technologies (e.g., RAG Model, Co-Pilot). Strong foundation in AI/ML practices and adept at working both independently and collaboratively.

**TECHNICAL SKILLS**

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| * Python, HTML, CSS | * Pandas, Matplotlib, NumPy | * AWS Glue, CloudWatch | * TensorFlow, Scikit-Learn |
| * GenAI, LLM, GANs | * Lang Chain, Hugging face | * Tableau, Power BI | * PostgreSQL, MySQL |
| * AWS (EC2, S3, RDS) | * Deep Learning, Spark | * Machine Learning, RAG | * AWS Lambda, Athena |
| * Azure ML, MLOps | * MS Power Automate | * Node JS, RestAPI’s, JSON | * Kubernetes, Docker |
| * Jenkins (CI/CD), Gitlab CI | * Analytical CRM, Looker | * Snowflake & DevOps | * Shell Scripting/Unix |

**PROFESSIONAL EXPERIENCE**

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| **Datasphere Consulting LLC** | *NYC, United States* |
| *Data & AI Analyst /GenAI Engineer* | *July 2022 – Current* |
| * Design, develop, and implement GenAI-driven solutions using CoPilot and Copilot Studio. * Develop and maintain Copilot agents to support GenAI use cases. * Integrate AI solutions with existing systems and third-party applications, services, and APIs. * Led cross-functional collaboration to define and translate Generative AI (GenAI) use cases into real world AI application. * Implemented **context-aware prompt** engineering with OpenAI's **GPT-3.5-turbo**, dynamically injecting retrieved context to reduce **hallucinations** and improve answer relevance. * Developed a **serverless automation pipeline** using **AWS Lambda**, enabling seamless **code management and workflow orchestration** without manual intervention. * Developed a **real-time cryptocurrency trend monitoring system** leveraging **AWS services** for data ingestion, storage, and notification. Utilized **crypto API endpoints** to fetch trending cryptocurrencies, stored the data in **Amazon S3 (JSON format)**, and triggered **automated Slack alerts** via **AWS Lambda** and **CloudWatch Events,** ensuring seamless **version control automation** without manual intervention. * Implemented **secure environment management** with **AWS Secrets Manager**, ensuring sensitive credentials remain protected. * Improved developer productivity by automating routine code management tasks, enhancing efficiency in **collaborative software development**. * Designed and implemented interactive dashboards in Amazon Quicksight to visualize data, providing real-time insights and facilitating quick response to emerging market trends. * Integrated a **Large Language Model (LLM)** from **Hugging Face** into a **custom AI-powered workflow**, enabling automated **text generation and decision support**. * Designed a scalable API-driven solution to process **natural language prompts** and generate **context-aware responses**, improving efficiency in **automated content generation**. * Lead the design, development, and deployment of Generative AI applications. * Utilize Large Language Models (LLMs), agentic AI, and AI chaining frameworks (e.g., LangChain). * Collaborate with cross-functional teams and stakeholders to identify AI opportunities and translate them into impactful solutions. * Added **persistent storage for embeddings** to avoid reprocessing, reducing compute costs by 40% for repeated queries. * Enhanced model performance through comprehensive data analysis, preprocessing, and feature engineering. * Leveraged expertise in **Python (NumPy, TensorFlow, Scikit-Learn)** to facilitate advanced machine learning tasks. * Stay updated with the latest advancements in GenAI and the **Power Platform** ecosystem. * Design, develop, and implement solutions using Power Apps and Power Automate. * Collaborate with business stakeholders to gather and understand requirements and translate them into technical solutions. * Conduct Proof of Concepts (PoCs) and demos to showcase solutions. * Provide technical support and troubleshooting for Power Platform solutions. * Utilize insights from our business partners, external market analysis, and your own experience to define, develop, and enhance new and existing solutions. | |
| **OCloud Solutions** | *Wyoming, United States* |
| *Full Stack Developer (React)* | *Oct 2020 – June 2022* |
| * Performed statistical analysis to uncover correlations and presented actionable insights to the marketing team, contributing to data-driven decisions on **website optimization** strategies and **targeted marketing campaigns.** * Utilized **Python** and data analysis libraries to preprocess and analyze the collected data, identifying trends, popular content, potential areas for improvement and implemented **Google Analytics** to track user behavior and monitor performance metrics with the use of **custom events**. * Led full-stack development of a web application with **React UI**, **MongoDB** backend, JWT auth & private routing. Demonstrated expertise in collaborative coding, version control, full-stack development, and security best practices. * Utilize **SQL queries** and data mining techniques to extract meaningful insights from large datasets. Conduct **ad-hoc analysis** to address business questions and present findings to both technical and non-technical audiences. * Designed and developed a comprehensive **Power BI** dashboard with integration of **DAX** functions to calculate **drill-through reports,** distribution patterns, and demographic trends, facilitating effective decision-making for public health authorities. * Developed an application to evaluate fabric quality using metrics like color consistency, dimensions, and stability. Utilized Otsu's and Adaptive thresholding, morphological operators, and sliding window algorithms in **OpenCV python** for **advanced image processing.** | |
| **National University of Computer and Emerging Science** |  |
| *Technical Lab Assistant* | *July 2019–September 2020* |
| * Supported research documentation processes, including **organizing datasets**, **recording methodologies**, and conducting literature reviews to inform data context and validate research design. * Applied statistical models to research data for **predictive insights**, enhancing research outcomes with data-driven projections. | |

**EDUCATION**

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| **Bachelor of Computer Science** *2022*  *National University of Computer and Emerging Sciences (FAST)* |

**CERTIFICATIONS**

* **Certified Genai Engineer -** *Genai-training.com LLC 2024*
* **Certified Prompt Engineer -** *Genai-training.com LLC 2024*
* **Certified Python Developer -** *Genai-training.com LLC 2024*
* **Harnessing the Power of Data with Power BI -** *2024*
* **Creative Designing in Power BI -** *2024*
* **Python for Data Science and Machine Learning –** *2023*