

# Muhammad Ghulam Jillani

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## Technical Skills

- **Programming & Development:** Python, Scikit-Learn, TensorFlow, Keras, PyTorch, NLTK, Transformers, EDA, ETL, PySpark, Matplotlib, Plotly, Open-CV, SQL, Vector DB , Flask, Streamlit, Docker, GitHub Action, CI/CD, NoSQL, Git.
- **Data Science & AI:** Machine Learning, Deep Learning, Data Analysis, Predictive Modeling, Artificial Intelligence, Statistical Modeling, Data Visualization, Data Engineering, Model Deployment, Time Series Analysis, Cloud Machine Learning, Big Data, Technologies, NLP, Prompt Engineering, Generative AI, LangChain, RAG, LLama-index, LLM Models.
- **Management & Operations:** Business Analysis, Cloud Platforms (Heroku, GCP, Azure, AWS), MLOps, AIOps, ML flow, Auto ML, PyCaret, Process Automation, Stakeholder Management, Decision-Making, Power Bi, Agile Methodologies, Microservices, Team Building, Project Management, Product Management.
- **Communication & Collaboration:** Effective Communication, Collaboration, Stakeholder Management, Team Building.
- **Languages:** English – All professional proficiency.

## Experience

Sr. Data Scientist & Machine Learning Engineer	BlocBelt	Maryland, USA	12/2022 – Currently
<ul style="list-style-type: none"><li>• <b>Strategic AI Leadership &amp; Team Management:</b> Spearheaded the development of AI-based SaaS and PaaS solutions, leading a team of three, with a focus on Big Data, Data Analysis, and AI Engineering. This initiative directly contributed to business growth, enhancing operational efficiency, and leading to cost savings of up to \$2M for clients.</li><li>• <b>Sales Forecasting &amp; Market Analysis:</b> Conducted extensive data analysis across 500+ market entities, resulting in an 80-90% improvement in sales forecasting accuracy. This led to the implementation of actionable growth strategies, significantly improving sales and operational workflows.</li><li>• <b>E-Commerce Platform Innovation &amp; Sales Growth:</b> Directed the launch of a personalized fashion e-commerce platform with a sophisticated recommendation engine, achieving an 80% sales uplift and a 200% surge in online orders, significantly exceeding project goals 3 months ahead of schedule.</li><li>• <b>Operational Excellence &amp; Cost Reduction:</b> Optimized operational workflows through OpenCV compliance solutions and streamlined data processing, achieving substantial cost savings, and improving efficiency across the board.</li><li>• <b>Data-Driven Strategy &amp; Revenue Growth:</b> Championed statistical modeling, predictive analytics, and cloud technologies, leading to an 18% growth in company revenue. Developed strategic dashboards and analytics solutions, improving data visibility by 45% and fostering cross-functional collaboration.</li><li>• <b>AI Integration &amp; Enhanced Digital Sales Experience:</b> Enhanced SaaS and PaaS offerings with AI capabilities, focusing on distributed systems and conducting over 25 A/B tests to refine the e-commerce experience. This strategic integration was key in driving forward-thinking strategies and technological advancements.</li></ul>			
AI Kaggle Master Mentor	Google-Kaggle	San Francisco, USA	12/2022 – 11/2023
<ul style="list-style-type: none"><li>• Engaged in a part-time capacity, dedicating 18-22 hours weekly, representing <b>Jillani SoftTech</b> as a Data Scientist and Machine Learning Engineer. Offered expertise in Tech Life, Coding, and provided career guidance through the <b>Kaggle-X BIPOC Mentorship Program</b>.</li><li>• Achieved a notable distinction as the first Pakistani in the Kaggle-X BIPOC Mentorship Program, ranking within the <b>top 100 Kaggle ranks globally</b>.</li><li>• Spearheaded a team of four, cultivating their technical prowess, bolstering confidence, and amplifying their professional and community contributions.</li><li>• Championed the growth of the data science community, instigating positive technological and data-driven transformations.</li></ul>			
Data Scientist	Crypto Express	Thailand	08/2022 - 12/2022
<ul style="list-style-type: none"><li>• Led the development of a cutting-edge Anti-spoofing Face-App, enhancing digital identity security and reducing identity fraud incidents by 70%, ensuring safer online environments.</li><li>• Utilized AI and ML techniques to solve critical issues in multiple industries, improving process efficiency by 25% and contributing to a 15% reduction in operational costs.</li><li>• Analyzed complex datasets, engineered predictive models, and delivered actionable insights, driving a 20% increase in revenue through data-driven decision- making.</li><li>• Advanced expertise in Exploratory DA (EDA), Machine Learning, and Deep Learning, streamlining data processes that saved over 500+ hours of manual analysis annually.</li><li>• Successfully deployed AI/ML projects in a remote work setting, adapting to dynamic conditions and gaining valuable experience in the AI/ML field.</li></ul>			
AI Trainer	Pakistan Freelancing Training Center	Lahore, Pakistan	01/2022 - 09/2022
<ul style="list-style-type: none"><li>• Led training sessions for students in AI and Data Science techniques, equipping them to address real-world challenges.</li><li>• Deployed AI models on various cloud platforms, showcasing practical applications of theoretical knowledge.</li><li>• Played a pivotal role in bridging the gap between academic learning and industry-relevant skills.</li></ul>			
Data Science Intern	Open AIMP	New Jersey, USA	01/2021 - 09/2021
<ul style="list-style-type: none"><li>• Tackled real-world problems across various markets.</li><li>• Acquired practical skills in Exploratory Data Analysis (EDA) and Machine Learning Algorithms.</li></ul>			

## Projects

- **Low-Code No-Code Predictive Analytics Platform (LLM):** Designed a user-friendly platform utilizing GPT-4 Turbo LLM Model and PyCaret, enabling non-technical users to perform classification and regression tasks on CSV datasets. The application, hosted on Heroku, supports data cleaning, exploratory data analysis, automated machine learning, and hyperparameter optimization.
- **Legal Document Analysis Chatbot (LLM):** Created a Python Flask-based web application for AI-driven discussions on legal PDF documents using the Gemini Pro LLM model. This solution improves document management and analysis efficiency with a custom AI chat interface.
- **End-to-End BlogGenAI Chatbot (LLM):** Developed an End-to-End BlogGenAI Chatbot utilizing Llama 3 8B and AWS Bedrock services. This project employs RAG for dynamic fine-tuning on updated datasets, enabling the creation of highly realistic AI-generated blog content.
- **Interactive Document-Based AI Chatbot (LLM):** Engineered a advanced document-based chatbot leveraging Llama3, LangChain, and Groq technologies to facilitate dynamic querying and interaction with PDF documents. The system features contextual awareness, session state management, and user feedback integration for continuous learning and adaptation.
- **Agricultural Health Detection System:** Led the creation of an agricultural platform using machine learning and deep learning to assess the health of 100 plant varieties with 98% accuracy. Integrated into a Flask application, the system provides crop recommendations and utilizes MLOps for deployment on Heroku.
- **AI-Powered Resume and Cover Letter Generator (LLM):** Developed a privacy-focused tool for automated creation of customized resumes and cover letters based on user input. Offers a straightforward interface and aligns outputs with specific job descriptions.
- **Customer Satisfaction Prediction System (MLOps):** Implemented a predictive model using ZenML and MLflow within an MLOps framework to forecast customer satisfaction with 93% accuracy, enhancing pipeline management and deployment efficiency.
- **Personalized Health Recommendation System (LLM):** Created a tailored health platform with Flask and GPT-4 that delivers customized diet and exercise plans based on user profiles, considering individual health metrics and preferences.
- **AI Content Creation Assistant (LLM):** Innovated a versatile AI tool for content generation, capable of adaptive summarization, blogging, and editing, catering to diverse user preferences and enhancing content relevance and quality.
- **Mobile Plan AI Chatbot (LLM):** Constructed using Llama-2 13B to provide detailed information on mobile plans and features, employing advanced algorithms for precise, context-aware user interactions and decision support.

## Education

Bachelor of Computer Science (Major: Artificial Intelligence and Computer Science.)Institute of Management Sciences

## CERTIFICATIONS

- **IBM Machine Learning Specialization Professional Certificate**, IBM.
  - **Deep Learning Specialization**, Deeplearning.ai.
  - **Machine Learning Specialization**, DeepLearning.AI.
  - **Google Advanced Data Analytics Professional Certificate**, Google.
  - **Google Business Intelligence Professional Certificate**, Google.
  - **Advanced Machine Learning on Google Cloud Specialization**, Google Cloud.
  - **MLOps | Machine Learning Operations Specialization**, Duke University.
  - **AI Product Management**, Duke University.
- **Generative Adversarial Networks (GANs) Specialization**, Deeplearning.ai.
  - **Machine Learning Engineering for Production (MLOps)**, DeepLearning.ai.
  - **Microsoft Azure AI Fundamentals AI-900 Exam Prep Specialization**, Microsoft.
  - **Preparing for Google Cloud Certification: Machine Learning Engineer**, Google.
  - **Google Project Management: Professional Certificate**, Google.
  - **Prompt Engineering for ChatGPT**, Vanderbilt University.
  - **AWS Cloud Solutions Architect Professional Certificate**, Amazon Web Services.
  - **Practical Data Science on the AWS Cloud Specialization**, DeepLearning.ai.