

# 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 – Current
<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 Data Analysis (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 Web App (LLM):** Designed a Low-Code/No-Code platform using GPT-4 LLM Model and PyCaret, enabling users to execute classification and regression tasks on CSV datasets. The application, hosted on Heroku, emphasizes user experience, featuring data cleaning, EDA, Auto ML, and hyperparameter tuning.
- Chat with your LegalPDF AI (LLM):** Developed **Chat with your LegalPDF AI LLM**, a Python Flask-based web application enabling interactive AI-driven discussions on legal PDF documents. Utilized Gemini Pro LLM model for custom AI chat interface integration, enhancing document management and analysis efficiency.
- Harvestify-Full-End-to-End-Project:** Pioneered a comprehensive agricultural solution that detects the health status of 100 plant varieties with a 98% accuracy rate. The platform, built using ML and DL algorithms, offers crop recommendations and is integrated into a Flask web application, leveraging MLOps for deployment on Heroku.
- AI-Powered Resume and Cover Letter Generator (LLM):** Proficient in developing an AI-driven tool for streamlined resume creation and tailored cover letter generation. This innovative solution harnesses user input to generate personalized resumes and craft cover letters that align seamlessly with specific job descriptions. Featuring a user-friendly interface for intuitive use, it prioritizes data privacy to ensure secure and confidential handling of user information.
- Customer Satisfaction Prediction (MLOps):** Utilized ZenML and MLflow in an MLOps framework to predict customer satisfaction. The model, benefiting from strategic data management and preprocessing, boasts a 93% accuracy rate. ZenML and MLflow facilitated efficient pipeline management and model deployment.
- Diet & Workout Recommendation (LLM):** Developed a Personalized Health Platform utilizing Flask and GPT-4, tailored to deliver bespoke diet and exercise plans. The system intelligently adapts to individual user profiles, considering unique factors such as age, weight, and dietary preferences, to offer optimized health recommendations.
- Content Gen-AI Assistant (LLM):** A cutting-edge AI-driven tool revolutionizing content creation across diverse niches. Combines adaptive summarization, dynamic blogging, and real-time editing, seamlessly blending user preferences with AI precision. A testament to innovation in efficient and tailored content generation.
- AI-Powered Mobile Plan Assistant Chatbot (LLM):** Engineered using Llama-2 13B to field inquiries on mobile plans and features. Utilizes advanced algorithms for accurate, context-aware responses, streamlining user decision-making in mobile package selection.

## Education

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