

Muhammad Ghulam Jillani

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Technical Skills

- **Programming & Development:** Python, Scikit-Learn, TensorFlow, Keras, 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, Urdu, Hindi – All professional proficiency.

Experience

Sr. Data Scientist & Machine Learning Engineer	BlocBelt	<i>Maryland, USA</i>	12/2022 – Current
<ul style="list-style-type: none">• Strategic Leadership: As a Senior Data Scientist at BlocBelt, I bring expertise in Big Data, Data Analysis, and AI Engineering, along with proficiency in Machine Learning techniques. Led a team of three, devising AI-based SaaS and PaaS solutions to drive business growth.• Sales Amplification: Elevated sales forecasts by 80-90% through meticulous data analysis of 500+ market entities.• Operational Excellence: Enhanced operational efficiency, saving clients up to \$2M through OpenCV compliance solutions.• E-commerce Innovation: Orchestrated the design and deployment of a personalized fashion E-commerce platform, bolstering sales by 80% via a sophisticated recommendation engine.• Data-Driven Initiatives: Championed projects harnessing statistical modeling, predictive analytics, and cloud technologies to maintain BlocBelt's competitive edge.• AI Integration: Seamlessly incorporated AI into SaaS and PaaS offerings, leveraging expertise in distributed systems.			
Kaggle Master Mentor	Google-Kaggle	<i>San Francisco, USA</i>	12/2022 – 11/2023
<ul style="list-style-type: none">• Engaged in a part-time capacity, dedicating 18-22 hours weekly, representing Jillani SoftTech as a Data Scientist and Machine Learning Engineer. Offered expertise in Tech Life, Coding, and provided career guidance through the Kaggle-X BIPOC Mentorship Program.• Achieved a notable distinction as the first Pakistani in the Kaggle-X BIPOC Mentorship Program, ranking within the top 100 Kaggle ranks globally.• Spearheaded a team of four, cultivating their technical prowess, bolstering confidence, and amplifying their professional and community contributions.• Championed the growth of the data science community, instigating positive technological and data-driven transformations.			
Data Scientist	Crypto Express	<i>Thailand</i>	08/2022 - 12/2022
<ul style="list-style-type: none">• Spearheaded the development of an innovative Anti-spoofing Face-App, enhancing digital identification security.• Applied AI and ML methodologies to address real-world challenges across diverse markets.• Analyzed complex data sets, created machine learning models, and effectively communicated results.• Continuously honed expertise in Exploratory Data Analysis (EDA), Machine Learning, and Deep Learning algorithms.• Embraced the flexibility of remote work, gaining hands-on experience in a dynamic AI/ML field.			
AI Trainer	Pakistan Freelancing Training Center	<i>Lahore, Pakistan</i>	01/2022 - 09/2022
<ul style="list-style-type: none">• Led training sessions for students in AI and Data Science techniques, equipping them to address real-world challenges.• Deployed AI models on various cloud platforms, showcasing practical applications of theoretical knowledge.• Played a pivotal role in bridging the gap between academic learning and industry-relevant skills.			
Data Science Intern	Open AIMP	<i>New Jersey, USA</i>	01/2021 - 09/2021
<ul style="list-style-type: none">• Tackled real-world problems across various markets.• Acquired practical skills in Exploratory Data Analysis (EDA) and Machine Learning Algorithms.			

Education

Bachelor of Computer Science	Institute of Management Sciences	<i>Lahore, Pakistan</i>	10/2019 – 05/2023
<ul style="list-style-type: none">• Major: Artificial Intelligence and Computer Science.			

Projects

- **Low-Code No-Code Predictive Analytics Web App (LLM):** Designed a Low-Code/No-Code platform using OpenAI LLM Models 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.
- **Human-Disease Predictor Web App:** Developed a Heroku-deployed predictive analytics platform using Flask for healthcare outcomes, achieving 96% accuracy in conditions like Alzheimer's, Brain Tumor, Diabetes, and Cardiovascular diseases. Demonstrated skill in managing sensitive health data, compliance with regulations, and applying MLOps, including (CI/CD), for effective and compliant model deployment.
- **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.
- **Advanced Identity Recognition Projects:** Developed and implemented advanced identity recognition solutions, including a cutting-edge Face-Recognition Attendance System and an Age, Gender & Emotion Recognition system. The Face-Recognition Attendance System automates precise attendance tracking through custom facial identification, ensuring exceptional accuracy. Simultaneously, the Age, Gender & Emotion Recognition system utilizes machine learning algorithms to achieve over 90% accuracy in identifying age, gender, and emotions. These solutions are hosted on Heroku and hold significant implications for industries such as security, marketing, and consumer behavior analysis.
- **Recommendation System :** Orchestrated the development of four distinct recommendation engines for Movies, Books, Courses, and an E-commerce Product Store. Utilized Python libraries to create systems that deliver content recommendations based on popularity and similarity metrics, achieving an impressive accuracy rate exceeding 90%.
- **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.

CERTIFICATIONS

- **IBM Machine Learning Specialization Professional Certificate**, IBM.
- **Deep Learning Specialization**, DeepLearning.AI.
- **Generative Adversarial Networks (GANs) 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.
- **Machine Learning 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.