

Muhammad Ghulam Jillani

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Introduction

As a **Senior Data Scientist** with a Bachelor's in Computer Science, I bring **4 years** of diverse experience in predictive modeling, Python programming, and data analytics. Recognized as a **top 100 Kaggle Master**, I am committed to leveraging data to drive organizational success. An active mentor with the Kaggle-X Team and a member of the **Google Developer Group**, my focus extends to continuous learning and fostering inclusivity in the data science community.

Experience

Sr. Data Scientist & ML Engineer	BlocBelt	Maryland, USA	12/2022 - Current
<ul style="list-style-type: none">As a Senior Data Scientist at BlocBelt, I bring expertise in Big Data, Data Analysis, and Engineering, along with proficiency in Machine Learning techniques. Lead a team of four, devising AI-based SaaS and PaaS solutions to drive business growth.Achieved an 80-90% increase in projected sales through comprehensive market research involving 500+ entities.Addressed compliance issues using OpenCV, saving up to \$2M for clients.Streamlined processes, leading to 50% savings for clients through data-centric strategies and mentorship.Spearheaded data-informed initiatives using statistical modeling, predictive analytics, and cloud computing.Integrated AI within SaaS and PaaS solutions, leveraging distributed systems knowledge.			
Kaggle Master Mentor	Google-Kaggle	San Francisco, USA	12/2022 - 09/2023
<ul style="list-style-type: none">Engaged in a part-time capacity, dedicating 20-25 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.Earned the distinction of being the first Pakistani in the Kaggle-X BIPOC Mentorship Program, securing a position within the top 100 Kaggle ranks globally.Led and mentored a team of four, nurturing their skills, enhancing their confidence, and making a significant impact on their professional growth and community contributions.			
Data Scientist	Crypto Express	Thailand	09/2020 - 12/2022
<ul style="list-style-type: none">Specialized in AI/ML tasks, developed Anti-spoofing Face-App.Solved real-world problems using AI/ML techniques and enhanced skills in EDA.			
AI Trainer	Pakistan Freelancing Training Center	Lahore, Pakistan	01/2022 - 08/2022
<ul style="list-style-type: none">Trained students in AI and Data Science techniques.Deployed AI models on cloud platforms.			
Data Science Intern	Open AIMP	New Jersey, USA	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	Lahore, Pakistan	2019 - 2023
<ul style="list-style-type: none">Major: Artificial Intelligence and Computer Science.			

Projects

- Human-Disease Predictor Web App Deployed (Heroku):** Engineered a web application using Flask, deployed on Heroku, that predicts a range of diseases, including Alzheimer's, Brain Tumor, and Cardiovascular Diseases, with a 96% accuracy rate. Incorporated MLOps methodologies, such as CI/CD, to ensure continuous and smooth updates.
- 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.
- Low-Code No-Code Predictive Analytics Web App (OpenAI 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, AutoML, and hyperparameter tuning.
- Face-Recognition Attendance System (Heroku):** Developed a facial recognition-based attendance system, training a custom model to identify individual faces. This efficient solution automates attendance marking, achieving remarkable accuracy in user identification.
- Recommendation System Deployed (Heroku):** Orchestrated three distinct recommendation engines focusing on Movies, Books, and Courses. Leveraging Python libraries, these systems suggest content based on popularity and similarity metrics, achieving over 90% accuracy.
- 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 Models):** Established a personalized health platform using Flask and OpenAI's language model. The system offers custom diet plans and exercise routines, factoring in user-specific parameters like age, weight, and dietary preferences.
- Big Mart Sales Forecasting:** Formulated a sales forecasting model for Big Mart, leveraging time series analysis. This model, built with Python, drives data-informed decisions, optimizing sales and profitability.
- Age, Gender & Emotion Recognition Deployed (Heroku):** Engineered an advanced recognition system leveraging machine learning algorithms, proficiently achieving over 90% accuracy in discerning age, gender, and emotions. Hosted on Heroku, this solution is pivotal for industries encompassing security, marketing, and consumer behavior analysis.
- Cryptocurrency Price Prediction (FB-Prophet, Heroku):** Developed a predictive platform using the FB-Prophet library, enabling users to forecast cryptocurrency prices and make informed investment decisions.

Skills

- Programming:** Python, Scikit-Learn, TensorFlow, Keras, Matplotlib, Plotly, Open-CV, SQL, Flask, Streamlit, LLM, Docker, GitHub Action, Kubernetes, CI/CD, NoSQL, Git.
- Data Science:** Machine Learning, Deep Learning, Data Analysis, Data Visualization, Data Engineering, Statistics Analysis, Prompt Engineering.
- Management & Communication:** Business Analyst, Cloud Platforms (Heroku, GCP, Microsoft Azure and AWS), MLOps, AIOps, ML flow, Auto ML, PyCaret, Process Automation, Stakeholder Management, Decision-Making, Power Bi, Agile, Microservices, Team Building, Project Management, Collaboration, Communication.
- Languages:** English, Urdu – All professional proficiency or above.

CERTIFICATIONS

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