Muhammad Ghulam Jillani

Google Developer Group Member, Kaggle Master, Machine Learning, Data Science, Computer Vision Enthusiast

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ABOUT ME

I am an enthusiastic and focused **Data Scientist driven to tackle real-world business challenges through my skills and expertise. I hold a Bachelor's degree in Computer Science and boast a diverse background of 3 years as a freelancer and 2 years of hands-on experience in building data-intensive applications.** My strengths lie in predictive modeling, data processing, and programming in Python. **As a Kaggle-X Team Mentor, Kaggle Master, and member of the Google Developer Group, I am committed to expanding my knowledge and skills in my field.** I am a diligent worker and technology enthusiast, eager to embrace new learning opportunities and challenge myself with new projects.

WORK EXPERIENCE

BlocBelt (USA Based):   12-2022 – In Present

• As a Professional Data Scientist at BlocBelt, **I bring expertise in Big Data, Data Analysis, and Data Engineering. With a focus on Machine Learning and Deep Learning, I deliver valuable insights and drive business growth.** I identify and implement data-driven solutions that support the company's success. **My goal is to leverage my background in data science to drive informed decision-making, improve processes, and increase revenue for BlocBelt.** Committed to using data for success, I am confident in delivering high-quality results.

Kaggle-X BIPOC Mentorship Program (USA Based):   12-2022 – 04-2023

• **As a seasoned Data Scientist, selected as the 1st Pakistani for Kaggle-X BIPOC Mentorship Program, I mentor and guide aspiring data scientists in advanced project development addressing real-world issues.** My passion for using data and tech to drive positive change, combined with expertise in data science, machine learning and deep learning, equips me to help mentees develop skills, build confidence, and make a meaningful impact in their careers and communities.

Crypto Express (Thailand):   09-2022 – 12-2022

• **Remote Data Scientist role based in Thailand focused on AI/ML** tasks solving real-world problems and **developing Anti-spoofing Face-App.** Opportunity to enhance skills in EDA and machine learning/deep learning algorithms.

Pakistan Freelancing Training Center: 01-2022 – 08-2022

• **Data Scientist and AI Trainer**, responsible for training students in applying AI and Data Science techniques to real-world problems and deploying AI models on cloud platforms.

EDUCATION

B.S. in Computer Science (BSCS)
Institute of Management Sciences, Lahore (IMS)   2019 -to-2023
- CCGPA: 3.45 out of 4.00.
- Awarded with Perfect Attendance and Perfect Programmer.

ACHIEVEMENTS

- **Selected KaggleX BIPOC Team Mentorship Program.**
- **Awarded Kaggle Master Level.**
- **Awarded Kaggle Case Study Competition.**
- **Awarded the Member of Google Developer Group.**
- **Awarded My University Coding Challenge with First Position.**

CERTIFICATIONS

- **Deep Learning Specialization**, DeepLearning.AI.
- **TensorFlow Developer Professional Certificate,** DeepLearning.AI.
- **IBM Machine Learning Specialization Professional Certificate**, IBM.
- **IBM Data Science Professional Certificate**, IBM.
- **Machine Learning Specialization,** DeepLearning.ai.
- **Machine Learning Engineering for Production (MLOps) Specialization,** DeepLearning.ai.
- **Building Cloud Computing Solutions at Scale Specialization.**
- **Google Project Management: Professional Certificate.**
- **Machine Learning Specialization**, Stanford University.
- **Kaggle Certificate.**
- **Data Scientist with Python**, University of Michigan.

SKILLS

- **Data Analysis, Data Cleaning, Data Visualization.**
- **Machine Learning, Deep Learning, Computer Vision.**
- **TensorFlow, Keras, Scikit-learn and PyTorch.**
- **Python, C++, C#, SQL, HTML5, CSS3, Js,Flask, Django.**
- **Excel, Power BI, Tableau, Dashboard Creation.**
- **Leadership, Teamwork, Presentation, Public Speaking.**
- **PySpark, ETL, EDA, Heroku and GCP.**

PROJECTS

Human-Disease Predictor Web App:

• A web application utilizing Flask library, which accurately predicts various **diseases such as Alzheimer's, Brain Tumor, Breast Cancer, Covid-19, Diabetes, Heart Disease, Pneumonia, Parkinson's, Stroke, Kidney and Cardiovascular Diseases with a 96% accuracy score** through classification algorithms.

WhatsApp Chat Analysis & Sentiment Prediction:

• A **web application that analyzes and provides sentiment predictions for WhatsApp chats through statistical analysis** and natural language processing. **It generates various plots to highlight communication patterns and provides insights for daily life.**

Fruit-Vegetable Recognition Calories Counter Web App:

• **Developed a Fruit-Vegetable Recognition Calories Counter Web App using CNN and Transfer Learning on a Fruit-Vegetable Dataset from Kaggle.** Accomplished accurate classification of fruits and vegetables and calculated their calorie count. **Successfully deployed the app on Heroku, showcasing expertise in deep learning and web deployment.**

Rice Classification Web App:

•**Developed Rice Classification Web App using Transfer Learning, which identifies 5 distinct rice varieties (Arborio, Basmati, Ipsala, Jasmine, and Karacadag) based on their unique features. Implemented CNN and Transfer Learning techniques on Rice Image dataset from Kaggle, resulting in a deployed solution on Heroku.** This project showcases my ability to apply advanced AI techniques for effective classification of a widely produced grain product.

Plant Leaf Disease Detection using Image Processing:

• **Achieved 98% accuracy in detecting 39 different classes of healthy or diseased plants,** contributing to improved agricultural production and food security. Utilized cutting-edge technology to tackle a long-standing threat to the agriculture industry.

Face-Recognition Attendance System Project:

• **Implemented a Face-Recognition Attendance System using machine learning techniques.** Designed and trained a model on a custom dataset to recognize individual faces and mark attendance. Developed an efficient and user-friendly system that automates the process of taking attendance using facial recognition technology. Achieved high accuracy in identifying and marking attendance for users through the provided user ID.

Recommendation System:

• **Developed two Recommendation Systems using Python's recommended library.** The first system was a **Movies Recommendation System** aimed at improving its usability by recommending movies to users. The second system was a **Books Recommendation System** that recommended books based on popularity and similarity.

Developed Car Price Prediction using OLX Dataset:

• **Developed a Car Price Prediction Web App using OLX Dataset.** Utilized Sklearn's supervised Machine learning techniques to predict the prices of used cars in the Pakistan market, addressing a real-world issue. Implemented a regression model to analyze and make predictions based on the dataset.

COVID-19 Analysis and Data Visualization:

• Assisted in tracking and monitoring the spread of COVID-19 through **data analysis and visualization using Python libraries and Power BI.** Helped determine areas with high or low cases for effective decision-making.

Cryptocurrency Price Prediction using FB-Prophet:

• **Implemented a Cryptocurrency Price Prediction System using the FB-Prophet library.** The system allows users to analyze charts and make informed investment decisions by predicting the price of different cryptocurrencies. **The aim of the project is to help generate profitable investment opportunities in the cryptocurrency market.**

Big Mart Sales Forecasting:

• **Developed Big Mart Sales Forecasting solution using time series analysis to optimize sales and increase profitability.** Implemented with Python, including feature engineering and model selection for accurate forecasting. **Resulted in data-driven decision making for the company.**

Age Gender and Emotion Recognition:

• I created an **age, gender, and emotion recognition application using advanced machine learning algorithms in Python.** The application can accurately identify age, gender, and emotional states with high precision, making it useful for various applications such as security, marketing, and customer analysis. The tool provides fast and reliable results.

Customer Segmentation System Python project:

• I developed a **customer segmentation system Python project** that analyzes customer data and segments them based on demographics, behavior, and preferences. The project employs machine learning algorithms and data visualization techniques to generate insightful reports, **demonstrating my proficiency in Python programming, data analysis, and machine learning.**

INTEREST

- Programming   . Learn New Technologies   . Agile Work   . Team Work
- Team Building   . Project Management   . Open Source Contribution
- Bi and BD maker   . Data Visualization & Dashboarding
- Learn MLOPS & DEVOPS.