Muhammad Ghulam Jillani

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

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ABOUT ME

As an Experience Data Scientist, I am resolute in addressing real-world business challenges through my profound skills and expertise. **With a Bachelor's degree in Computer Science,** I possess a diverse **background of 3 years as a freelancer and extensive hands-on experience in constructing data-intensive applications.** My primary proficiencies encompass predictive modeling, data processing, and **Python programming**. In addition to my professional accomplishments, I actively contribute as a **Kaggle-X Team Mentor**, being ranked among the **top 100 Kaggler worldwide** and recognized as a **Kaggle Master**. I am also a valued member of the **Google Developer Group,** consistently augmenting my knowledge and skills in this field. Driven by diligence and an authentic passion for technology, I eagerly embrace new learning opportunities and eagerly pursue exhilarating projects.

WORK EXPERIENCE

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

• **As a Senior Data Scientist at BlocBelt,** my expertise lies in Big Data, Data Analysis, Data Engineering and Data Science. With a strong focus on Machine Learning and Deep Learning, I drive insights and contribute to business growth. I generate advanced **AI-based ideas** and develop innovative applications, leveraging emerging technologies like Prompt engineering and Computer Vision to propel BlocBelt's growth. My skills in statistical modeling, predictive analytics, cloud computing, and distributed systems enable me to deliver data-driven solutions that optimize processes and support decision-making. Committed to using data for success, **I lead a highly skilled team** of four members who consistently deliver exceptional results. Together, we have achieved remarkable outcomes, including a recent project that improved the **client's future sales by 80 to 90%**. Our team's expertise also extends to automating work processes for clients, providing valuable assistance. I am confident in delivering high-quality results and contributing to BlocBelt's success as a Senior Data Scientist.

Google Kaggle (USA): **12-2022 – 05-2023**

• **As a seasoned Data Scientist, I have the honor of being selected as the first Pakistani for the Kaggle-X BIPOC Mentorship Program.** In this role, I mentor and guide aspiring data scientists, helping them develop advanced projects that tackle real-world challenges. My expertise in data science, machine learning, and deep learning, combined with my passion for leveraging data and technology for positive change, equips me to assist mentees in building their skills, gaining confidence, and making a meaningful impact in their careers and communities. Alongside **my team of four talented mentees,** we successfully complete multiple AI, machine learning, and deep learning projects, including comprehensive **end-to-end data science projects.**

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: 3.10 out of 4.00.**
- Awarded with Perfect Attendance and Perfect Programmer.

ACHIEVEMENTS

- **Selected Google 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

- Machine Learning Specialization, **DeepLearning.AI.**
- **Deep Learning Specialization**, **DeepLearning.AI.**
- Google Advanced Data Analytics Professional Certificate, **Google.**
- Preparing for Google Cloud Certification: Machine Learning Engineer, **Google.**
- AI For Everyone, **IBM**
- IBM Machine Learning Specialization Professional Certificate, **IBM.**
- IBM Data Science Professional Certificate, **IBM.**
- Building Cloud Computing Solutions at Scale Specialization, **Duke University.**
- Advanced Business Analytics Specialization, **University of Colorado Boulder.**
- Google Business Intelligence Professional Certificate, **Google.**
- Google Project Management, **Google.**
- Prompt Engineering for Chat-GPT, **Vanderbilt University.**
- Machine Learning Engineering for Production (MLOps), **Deeplearning.ai.**
- Generative Adversarial Networks (GANs) Specialization, **Deeplearning.ai.**
- Microsoft Azure AI Fundamentals AI-900 Exam Prep, **Microsoft.**

PROJECTS

Human-Disease Predictor Web App Deployed in Heroku:

• **Developed and deployed a web application on Heroku,** utilizing the Flask library. Implemented MLOps techniques, including (CI/CD), to ensure seamless updates. The application 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 an impressive **96% accuracy** using classification algorithms.

WhatsApp Chat Analysis & Sentiment Prediction Deployed in Heroku:

• A web application that utilizes statistical analysis and natural language processing to provide sentiment predictions for WhatsApp chats with a remarkable **accuracy score of 100%.** This application also generates informative plots that help visualize communication patterns, offering valuable insights for daily life.

Fruit-Vegetable Recognition Calories Counter WebApp Deployed in GCP:

• **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 Deployed in Heroku:

• I have developed a Rice Classification Web App utilizing **Transfer Learning techniques.** This application accurately identifies **five distinct rice varieties** (Arborio, Basmati, Ipsala, Jasmine, and Karacadag) based on their unique features. To achieve this, I implemented Convolutional Neural Network (CNN) and Transfer Learning algorithms on a Rice Image dataset sourced from Kaggle. The successful deployment of this solution on Heroku demonstrates my proficiency in applying advanced AI techniques for effective classification of a widely produced grain product. Notably, the project achieved an impressive **accuracy score of 98.7%.**

Harvestify-Full-End-to-End-Project:

• **Achieved 98% accuracy** in easily detecting the health status of 100 different plant classes, contributing to improved agricultural production. Developed crop recommendation system and fertilizer using Machine Learning and Deep Learning algorithms, integrated into a Flask web app. **Deployed on Heroku with MLops techniques (CI/CD).** Revolutionized agriculture industry.

Face-Recognition Attendance System Project Deployed in Heroku:

• **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 Deployed in Heroku:

• **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. **Both Project's accuracy score is above 90%.**

Developed Car Price Prediction using OLX Dataset:

• I have developed a web application for car price prediction using the OLX dataset. This project addresses a real-world issue by utilizing supervised machine learning techniques from Sklearn to predict the prices of used cars in the Pakistan market. I implemented a regression model that analyzed the dataset and made accurate predictions. **The accuracy score achieved in this project is 88.97%.**

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 Deployed in Heroku:

• **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 Deployed in Heroku:

• I have developed a robust age, gender, and emotion recognition application using advanced machine learning algorithms in Python. This application demonstrates remarkable accuracy in identifying age, gender, and emotional states with high precision, making it highly valuable for diverse applications including security, marketing, and customer analysis. The tool delivers fast and reliable results, providing an **accuracy score of 100% in this project.**

Customer Segmentation System Python Project Deployed in Heroku:

• I have successfully developed a Python project focused on customer segmentation. This project involves analyzing customer data and categorizing them based on demographics, behavior, and preferences. By leveraging machine learning algorithms and data visualization techniques, I have generated insightful reports. This project showcases my expertise in Python programming, data analysis, and machine learning. The accuracy score achieved in this project is an **impressive 95%.**

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 and Flask.**
- **Leadership, Teamwork, Presentation, Public Speaking.**
- **PySpark, ETL, EDA, Heroku and GCP.**