Muhammad Ghulam Jillani

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Introduction

With a robust foundation in Computer Science, evidenced by a Bachelor's degree and bolstered by four years of multifaceted experience, I am a Senior Data Scientist and Machine Learning Engineer. My expertise spans a broad spectrum of domains, including predictive modeling, computer vision, generative AI, and large language models. Recognized within the top 100 Kaggle Masters globally, I am deeply committed to leveraging cutting-edge data science and machine learning technologies to drive organizational success. Beyond my technical prowess, I am an enthusiastic mentor in the Kaggle community and an active member of the Google Developer Group, where I champion continuous learning and advocate for inclusivity within the data science field.

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, AlOps, 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

Maryland, USA

12/2022 - Current

- Strategic Leadership: As a Senior Data Scientist and Machine Learning Engineer 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 Al-based SaaS and PaaS solutions to drive business growth.
- Sales Amplification: Spearheaded data analysis across 500+ market entities, resulting in an 80-90% enhancement in sales forecasts, demonstrating an acute ability to translate complex datasets into actionable growth strategies.
- Operational Excellence: Implemented OpenCV compliance solutions, optimizing operational workflows and delivering cost savings of up to \$2M for clients, thereby reinforcing BlocBelt's reputation for delivering value-driven AI solutions.
- E-commerce Innovation: Led the creation and launch of a personalized fashion E-commerce platform, employing a sophisticated recommendation engine to achieve an 80% uplift in sales, showcasing my capacity to drive retail transformation through technology.
- Data-Driven Initiatives: Championed the adoption of statistical modeling, predictive analytics, and cloud technologies, underpinning BlocBelt's industry leadership with cutting-edge data insights and operational efficiencies.
- Al Integration & Digital Sales: Enhanced SaaS and PaaS offerings with Al capabilities, focusing on distributed systems to elevate digital sales. Implemented over 25 A/B tests to refine the e-commerce experience, culminating in a 200% surge in online orders achieving project goals six months ahead of schedule.
- Strategic Analytics & Collaboration: Developed strategic dashboards and analytics solutions, improving data visibility by 45% and fostering cross-functional collaboration. My efforts contributed to an 18% growth in company revenue, underlining my role as a pivotal figure in driving forward-thinking strategies and technological integration.

Kaggle Master MentorGoogle-KaggleSan Francisco, USA12/2022 – 11/2023

- Engaged in a part-time capacity, dedicating 18-22 hours weekly, representing <u>Jillani SoftTech</u> 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 Thailand 08/2022 - 12/2022

- 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.

Al Trainer Pakistan Freelancing Training Center Lahore, Pakistan 01/2022 - 09/2022

- 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.
- Played a pivotal role in bridging the gap between academic learning and industry-relevant skills.

Data Science Intern Open AIMP New Jersey, USA 01/2021 - 09/2021

- 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

10/2019 - 05/2023

• Major: Artificial Intelligence and Computer Science.

Projects

- <u>Low-Code No-Code Predictive Analytics Web App (LLM)</u>: 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.
- <u>Human-Disease Predictor Web App:</u> 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.
- <u>Harvestify-Full-End-to-End-Project:</u> 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.
- <u>Al-Powered Resume and Cover Letter Generator (LLM)</u>: Proficient in developing an Al-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.
- <u>Advanced Identity Recognition Projects:</u> Developed and implemented advanced identity recognition solutions, including a cutting-edge <u>Face-Recognition Attendance System</u> and an <u>Age, Gender & Emotion Recognition system</u>. 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.
- <u>Recommendation System</u>: 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%.
- <u>Customer Satisfaction Prediction (MLOps)</u>: 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.

- <u>Diet & Workout Recommendation (LLM)</u>: 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.
- <u>Content Gen-Al Assistant (LLM)</u>: A cutting-edge Al-driven tool revolutionizing content creation across diverse niches. Combines adaptive summarization, dynamic blogging, and real-time editing, seamlessly blending user preferences with Al precision. A testament to innovation in efficient and tailored content generation.
- <u>Al-Powered Mobile Plan Assistant Chatbot (LLM)</u>: Engineered using Llama-2 13B to field inquiries on mobile plans and features. Utilizes advanced algorithmsfor 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.
- Al Product Management, Duke University.

- Machine Learning Specialization, DeepLearning.Al.
- Machine Learning Engineering for Production (MLOps), DeepLearning.ai.
- Microsoft Azure Al Fundamentals Al-900 Exam Prep Specialization, Microsoft.
- <u>Preparing for Google Cloud Certification: Machine Learning Engineer</u>, Google.
- Google Project Management: Professional Certificate, Google.
- <u>Prompt Engineering for ChatGPT</u>, Vanderbilt University.
- <u>AWS Cloud Solutions Architect Professional Certificate</u>, Amazon Web Services.
- Practical Data Science on the AWS Cloud Specialization, DeepLearning.ai.