

Ghulam Ali

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EXPERIENCE

- **Decision Group Inc.** *Remote*
Software Engineer – Consultant..... *Mar 2023 – Present*
 - Developing a cloud-based automated risk management system for a fintech company operating in North America.
- **Omdena** *Remote*
Machine Learning Engineer – Open-Source Contributor *Dec 2022 – Present*
 - Working on the AI innovation project: Tackling Deforestation in Tanzania with focus on Mangroves.
 - Contributed to developing AuroHue, a web-application for monitoring and predicting the air-quality of Mumbai City, India, using machine learning. [Project Demo Presentation](#)
- **i2c Inc.** *Lahore, Pakistan*
Data Analyst – Analytics..... *Jan 2022 – Dec 2022*
 - Led the end-to-end development of regression-based ML model for fraud risk assessment of the consumer cards. Model enabled the flagging of top 10% of potential fraudulent cards, enhancing fraud detection capabilities.
 - Co-led the development of random forest ML model for ACH transactions in 2nd iteration, resulting in improved performance and a 30% increase in dispute savings. Model poised to be offered as a SaaS solution to clients.
 - Implemented Python-based automation for client program segmentation, saving weeks of manual work time.**Associate Data Analyst – Analytics** *Nov 2020 – Dec 2021*
 - Conducted extensive feature engineering on diverse datasets of different payment channels. These newly designed 22 features formed the basis of customer intelligence system and business-centric ML models.
 - Designed and implemented fraud monitoring solutions for clients with consumer and commercial portfolios, achieving a 40% hit rate in flagging fraudulent activity and reducing annual fraud loss by 35%.
 - Developed and deployed ETL pipelines for monitoring the call centre of customer service management team.
- **Dryvar Foods** *Remote*
Flutter Developer *May 2020 – Nov 2020*
 - Developed a cross-platform mobile application in Flutter with a PHP backend server for Dryvar, a food delivery service, with real-time delivery tracking via GPS as a complete overhaul to their previous platform. [Google Play Store](#)

EDUCATION

- **Lahore University of Management Sciences (LUMS)** *August 2016 – July 2020*
Bachelor of Science (BSc), Computer Science
 - Relevant Courses: Artificial Intelligence, Advanced Programming, Algorithms, Deep Learning, Data Science, Data Structures, Network Centric Computing, Software Engineering,

PROJECTS

- **Deep Neural Networks**
 - Implemented a variety of deep neural networks, including CNN for image classification (CIFAR-10), cross-view image retrieval (VGG-16), DCGAN for emoji generation, and sequence modelling for sentiment analysis in Python.
- **Predictive Modelling**
 - Investigated the target date to collect required funds for the Diemer-Bhasha dam through a public donation campaign hosted by the State Bank of Pakistan, using a regression-based model.
- **Ticket Reservation System**
 - Web-application for online railway ticket reservation system.

SKILLS

- **Expertise:** Machine Learning, Feature Engineering, Fintech, Financial Services, Payment Processing, Statistical Analysis, Predictive Modelling, Exploratory Data Analysis (EDA), Big Data, Natural Language Processing (NLP), Software Development Life Cycle (SDLC), SDK, API Integration
- **Programming:** Python, JavaScript, TypeScript, C++, Dart, SQL
- **Frameworks & Development:** Flutter, Node.js, Next.js, REST (Restful) API, Vercel, Amazon SageMaker
- **Data Modelling:** Pandas, NumPy, Matplotlib, Scikit-Learn, SciPy, Keras, TensorFlow, PyTorch, Theano, NLTK
- **Tools:** Git, Slack, Google Colab, VS Code, IBM Informix, Greenplum, PostgreSQL, Postman, Power BI