



Muhammad Ishaq

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● ABOUT ME

Smart and Dynamic Data scientist and Data Engineer with a comprehensive grasp of Machine Learning, Data Analysis, Database management, Data pipeline, Scripting, and Data-Driven solutions. Eagerly pursuing an opportunity within the Data Science domain to contribute expertise in driving innovative machine learning solutions and fostering groundbreaking advancements.

● WORK EXPERIENCE

03/07/2023 – 06/09/2023 Remote, Pakistan

MACHINE LEARNING INTERN CAREEM (COLLABORATION)

Engineered and implemented a robust machine learning and AI-based solution for detecting and preventing fraudulent activities by Careem's captains, ensuring optimal and reliable security measures. Responsibilities related to this role were.

- Consolidated diverse files into a unified dataset while maintaining data integrity.
- Conducted comprehensive data analysis to gain a deep understanding of the information.
- Creating a Dashboard for accurate analysis and showcasing the hidden trends in data.
- Performed essential data preprocessing, EDA, and developed various models for anomaly detection.
- Assessed and enhanced model performance through the application of diverse optimization techniques.

10/06/2023 – 23/08/2023 Abotabad, Pakistan

AI INTERN ROBOTICS WORLD

Worked on a dataset to pinpoint student's weak areas in various courses. Designed and implemented innovative machine learning and deep learning architectures, starting from data analysis, EDA, finding trends in data, and finally model development including decision trees, RNNs, and LSTMs, to analyze student grades and pinpoint weak areas. Aiming to provide tailored support in the absence of direct supervision, fostering academic growth.

- Data analysis and finding hidden trends in data.
- Data preprocessing and EDA (outliers, null values, scaling, etc).
- Implementation of an algorithm (Decision Trees, RNN, LSTM).
- Testing model and reported results to the head.
- Tuning and improving the architecture.

05/03/2022 – CURRENT Pakistan

KAGGLE WORK KAGGLE

Actively working on Kaggle to polish my data analysis and data science skills. participated in many competitions like "House Prices - Advanced Regression Techniques", "2018 Data Science Bowl", and "I am Something Painter of Myself" which helped me to develop data analysis, data pipeline, EDA, and analytical thinking. Also worked on many Kaggle datasets including the real Pakwheels dataset using Data analysis, EDA, and finally different machine learning algorithms, and more.

09/11/2021 – 05/01/2022 Pakistan

GIKI MESS MANAGEMENT (DBMS BASED MESS MANAGEMENT) GIKI

Designed web using SQL, PHP, HTML, Bootstrap, and CSS to manage the GIKI mess system in an efficient and digitalized way. I have designed three sections on the home page for students, employees, and admin containing the action of each. The aim is to manage the Giki mess system clearly, efficiently, and in a well-mannered way.

09/08/2023 – CURRENT Pakistan

FINAL YEAR PROJECT GIKI

Working on a Visual Question-Answering application for medical images (X-Rays), leveraging machine learning, deep learning, and NLP. Employed a sophisticated multimodal architecture, starting from data annotation, noise reduction, and creating embeddings for image and question embeddings. The process involves concatenation, and finally, text generation. The project focuses on empowering medical professionals and practitioners in rural areas particularly.

07/11/2022 – 07/01/2023 Pakistan

DRIVER DROWSINESS DETECTION (DEEP LEARNING-BASED CLASSIFICATION MODEL) GIKI

Designed and implemented a convolutional neural network-based model with Tkinter GUI that predicts whether the driver is sleepy or not while driving. The system was fed a continuous frame of the driver's face initially apply some simple image enhancement techniques to improve the images and then model just classified these frames, based on these classifications the model has to decide whether to raise an alarm or not. The goal is to avoid accidents due to drowsiness.

11/04/2023 – 19/06/2023 Pakistan

CAPTION GENERATION FOR IMAGE GIKI

Engineered a caption-generation web application utilizing NLP and Computer Vision techniques. Spearheaded processes, including image enhancement, text preprocessing, and embedding. Implemented models such as GloVe for text embeddings, VGG16 for image embeddings, and LSTM for accurate caption generation.

09/09/2022 – 14/02/2023 Pakistan

MACHINE LEARNING FROM SCRATCH GIKI

Implemented machine learning algorithm from scratch with mathematical understanding and derivations the algorithms are linear regression, logistic regression, decision trees, SVM, clustering, neural networks, and naïve Bayes classifier.

● **EDUCATION AND TRAINING**

10/07/2020 – CURRENT Swabi, Pakistan

BS IN ARTIFICIAL INTELLIGENCE ghulam ishaq khan institute of engineering sciences and technology-GIKI

Website <https://giki.edu.pk/>

● **DIGITAL SKILLS**

Data Engeniering | Python | Machine Learning • | SQL | Data analysis Data Validation Data Cleansing | data preprossesing | Big Data Technologies | Database : MySQL(basic) | EDA | Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation | Problem Solving Skills. ... | Feature Engineering & Selection | Deep learnming | COMPUTER VISION | aws | tensorflow | Natural language Processing | DevOps: AWS, Git. | Digital Image Proccesing | Image Enhancement | C++ | C

- **ADDITIONAL INFORMATION**

HONOURS AND AWARDS

11/05/2020

KPK Chief Minister Scholarship fully funded – KPK, Chief Minister KPK, Chief Minister fully funded Scholarship. (24 lack PKR)

Got 19th position in the GIKI entrance test throughout the KPK.
