

MUHAMMAD JAWAD AMIN

Junior Data Scientist

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EDUCATION

Govt College University, Lahore - GCUL

10/2020 – 06/2024

Bachelor's In Computer Science - BSCS — CGPA - 3.69

Lahore, Pakistan

COURSEWORK

- Data Structures & Algorithms
- Operating Systems
- Network Security
- Database Management System (DBMS)
- Mobile App Development
- Machine Learning
- OOPS Concept
- Data Mining
- Data Warehousing

PROJECTS

Machine Learning

Using different Python ML Frameworks.

- **ID Card and Face Matching System:** Developed using a Siamese network with VGGFace for feature extraction, achieving high accuracy in facial verification. Preprocessed images from directories, detected and aligned faces using MTCNN, and trained the model to distinguish between matching and non-matching pairs.
- **CNN for Fruit Classification:** Successfully trained a Convolutional Neural Network from scratch to classify images, achieving an impressive accuracy of 0.99 and a loss of just 0.012. The fruits dataset was scrapped from the internet.
- **DeepFake Video Detection System:** Developed using Res-Net CNN for feature extraction and LSTM RNN for classification. Built a user-friendly web application with Flask for video upload and analysis, achieving high accuracy.

Mobile App Development

Cross Platform Apps Using Dart & Flutter

- **5-Time Prayer Recorder:** Utilized Firebase Firestore, Firebase, and Google Authentication.
- **Basic Chat App:** Integrated Firebase Firestore and Firebase Authentication with a beautiful UI.
- **Diary App:** Employed SQLite for local storage and the Flutter Intl plugin with an interactive UI.

Coursework Projects

DSA, DBMS, & Data Warehousing

- **Exam Scheduler:** Console-based application developed in C# using Dinic's Algorithm of Max Flow.
- **Appliance Factory DBMS:** Developed using MS-SQL Server, normalizing the database up to 6NF.
- **Soccer World Cup Analysis System:** Built using MS-SQL Server OLAP, SSDT-BI, and the Fjelstul Soccer World Cup Database for various types of analysis using the OLAP cube.

INTERNSHIP

MACHINE LEARNING 1

07/2024 – Present

Data Science - Bootcamp

Lahore, Pakistan

ASCEND BPO

05/2022 – 07/2022

Web Developer - Intern

Lahore, Pakistan

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, C#, Dart, SQL, HTML, CSS, JavaScript

Developer Tools: Visual Studio Code, Android Studio, Anaconda, Jupyter Notebook, GitHub, Git

Technologies/Frameworks: Flutter, MongoDB, Numpy, Pandas, Matplotlib, OpenCV, Seaborn, Selenium, BeautifulSoup, Scikitlearn

EXTRACURRICULAR

Centralized Test For IT Graduates

12/2023

- Scored 98.5 percentile and ranked 99th overall in Punjab in an IT test organized by HEC Pakistan.

CERTIFICATIONS

- The Ultimate Dart & Flutter Course - Udemy
- Introduction to Databases with SQL - Harvard University
- Mathematics For Machine Learning & Data Science Specialization - Coursera
- Introduction to Programming In Python - Harvard University
- Introduction to Git & GitHub - Coursera
- Machine Learning Specialization - Coursera
- Basics Of Information Technology - Brains College