



Syed Hamza Gilani

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Address: Barma Town, Islamabad, 44000, Islamabad, Pakistan (Home)

● ABOUT ME

I am a dedicated software technology professional specializing in database development, machine learning, deep learning, computer vision, and convolutional neural networking. With a strong background in Python, I excel in desktop application development and Python programming. My experience spans across diverse domains, enabling me to adapt swiftly, optimize solutions, and consistently deliver high-quality results within strict timelines.

● DIGITAL SKILLS

Data Science

Database Design & Programming | Oracle database | SQL (MSSQL, PL/SQL, MySQL) | ORACLE / MySQL / SQL / SQL (SQL Server) | SQL | Python (Tkinter) | Anaconda | Jupyter Notebook | Machine Learning | Deep Learning | Convolution Neural Network | Computer Vision | Numpy | Pandas | Matplotlib | Seaborn | OpenCV | Scikit-Learn | Keras | Tensorflow | Data Preprocessing | Git | Microsoft Office | Data Visualization | Data Analysis | Linux | Arc GIS | Data Visualization (Tableau, Power BI)

● WORK EXPERIENCE

01/07/2023 – CURRENT Islamabad, Pakistan

RESEARCH ANALYST MICROMERGER

- Data extraction and analysis from complex datasets.
- Expertise in data preprocessing and feature engineering.
- Development of predictive and prescriptive models.
- Experience with prestigious organizations such as UNICEF.

Department ICIMS Islamabad | **Address** Plot No. 395-396, I-9/3, Islamabad Capital Territory , 46000, Islamabad, Pakistan

01/07/2022 – CURRENT New York, United States

DATA ANALYSIS FIVERR

- Analyzing and interpreting complex data sets using **Excel** and **PowerBI**.
- Generating insightful reports and visualizations.
- Providing actionable insights to support data-driven decision-making.
- Maintaining dashboards and performance metrics.
- Ensuring data accuracy and integrity.
- Supporting business strategies with data analysis.
- Conducting regular data audits and updates.

01/01/2021 – CURRENT New York, United States

MACHINE/DEEP LEARNING DEVELOPER FIVERR

- Design and training of machine learning and deep learning models.
- Expertise in data preprocessing and analysis.
- Data-driven decision-making through predictive models.
- Contribution to AI projects for organizations.

01/01/2021 – CURRENT New York, United States

DESKTOP APPLICATION & DATABASE DEVELOPER FIVERR

- Creation of user-friendly graphical user interfaces (GUIs).
- Implementation of application logic in Python.

- Data management, including data storage and retrieval.
- Cross-platform compatibility for Windows, macOS, and Linux.
- Version control with tools like Git for collaboration.
- Database design and schema development.
- Writing complex SQL queries, stored procedures, and triggers.
- Troubleshooting and issue resolution.
- Documentation of database structures and procedures.

● PROJECTS

01/02/2024 – CURRENT

SPAG Server Database Application

Developed a server-level desktop application in Python with an **MS SQL Server** backend to manage data on an **Azure Server**. This application ensures robust data handling and efficient server operations.

01/09/2023 – 31/12/2023

LQAS (Lot Quality Assurance Sampling) Predictor

The **LQAS** (Lot Quality Assurance Sampling) Predictor is a **deep learning** project aimed at evaluating the quality of polio vaccination campaigns in Pakistan. The model predicts the success or failure of union councils (UCs) based on their performance in polio eradication efforts. By analyzing the key features the model assesses the effectiveness of vaccination drives and identifies areas that need improvement. This tool provides valuable insights for public health officials to enhance their strategies and ensure higher vaccination coverage, ultimately contributing to the eradication of polio.

01/09/2022 – 30/06/2023

Final Year Project (FYP) - Forensics Voicebot

The "Forensics Voicebot" project is a culmination of deep learning technology and a user-friendly desktop application. Its primary goal is to detect and distinguish between genuine voices and logical access spoofed voices, which may be generated using text-to-speech algorithms. By leveraging a trained deep learning model, this project offers advanced voice authentication capabilities.

Key Project Features

- **Deep Learning Model:** The project incorporates a deep learning model trained on a diverse dataset, enabling it to analyze and differentiate real voices from spoofed ones effectively.
- **Desktop Application:** A user-friendly desktop application serves as the front end, providing a convenient interface for users to interact with the system.

15/10/2022 – 01/01/2023

Al Sadat School Application

Developed a desktop application with an **Oracle** database backend for Al-Sadat School to manage student records, including attendance, fees, and registered courses. The application generates certificates upon course completion and issues marked duplicates upon request, enhancing administrative efficiency and record accuracy.

● EDUCATION AND TRAINING

01/09/2019 – 01/07/2023 Pakistan

BACHELOR OF SCIENCE - SOFTWARE ENGINEERING Higher Education Commission

Address University Of Engineering And Technology (UET), Taxila, 47050, Pakistan | **Website** <https://www.hec.gov.pk/>

01/09/2017 – 01/08/2019 Pakistan

INTERMEDIATE FBISE

Address Punjab College Of Sciences, Blue Area, Islamabad, 44000, Pakistan | **Website** <https://www.fbise.edu.pk/>

01/06/2015 – 01/08/2017 Pakistan

MATRICULATION FBISE

Address Islamabad Model School For Boys, G-6/4, Islamabad, 44000, Pakistan | **Website** <https://www.fbise.edu.pk/>