



# SYED WAJAHAT QUADRI

## SOFTWARE ENGINEER

### CONTACT

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- [Portfolio](#)
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### EDUCATION

2021 - 2024  
**BSC COMPUTER SCIENCE WITH  
ARTIFICIAL INTELLIGENCE**  
Northumbria University, UK

2018 - 2019  
**FOUNDATION IN COMMERCE**  
SEGi College, Malaysia

### CERTIFICATIONS

2023  
**CS50P - INTRODUCTION TO  
PROGRAMMING WITH PYTHON**  
HarvardX

2023  
**LARAVEL 9.0 ESSENTIAL  
TRAINING**  
LinkedIn

2023  
**GIT ESSENTIAL TRAINING**  
LinkedIn

2023  
**DEEP LEARNING: MODEL  
OPTIMIZATION AND TUNING**  
LinkedIn

### PROFILE

I'm a versatile professional experienced in software development, machine learning engineering, and data science. I'm a critical thinker who thrives on feedback and excels at quickly adapting to new challenges. I specialize in software development, from concept to deployment, and possess expertise in ML model development, optimization, deployment, integration, and monitoring.

### WORK EXPERIENCE

- WeHearYou, Illinois, USA** SEPT 2023 - PRESENT  
*Data Scientist*
  - Performed data segmentation and organization to meet the neural network requirements.
  - Enhanced sign language translator by compiling and organizing an extensive dataset of gestures.
  - Utilized advanced techniques to guarantee the precision and effectiveness of data.
  - Coordinated with various technical and functional teams to implement models and monitor results.
  - Conducted analyses to identify trends or patterns in data sets.
  - Generated reports to present results of analyses in easy to comprehend manner.
- WeHearYou, Illinois, USA** MAY 2023 - SEPT 2023  
*Machine Learning Intern*
  - Compiled and organized an extensive dataset of sign language gestures.
  - Ran sign language data through the MediaPipe script and retrieved the data points to then feed the neural network.
  - Built an ASL Translator Interface prototype using Android Studio.
  - Created a functional ASL Translator prototype with integrated AI model to enable real-time translation.
  - Debugged and identified model prediction issues to quickly fix bugs and improve accuracy.
  - Effectively conveyed project updates, progress, and technical details to the team.

## IT SKILLS

- Python
- Java
- SQL
- MATLAB
- JavaScript
- HTML / CSS
- React
- Node
- PHP
- C

## LIBRARIES

- Numpy
- Scikit-learn
- TensorFlow
- Keras
- Pandas
- Matplotlib
- OpenCV

## DEV TOOLS

- Git
- Phpmyadmin
- Django
- Anaconda
- Laravel
- Visual Studio
- VS Code
- Postman
- FastAPI

## SOFT SKILLS

- Problem-Solving
- Communication
- Team Player
- Adaptability
- Critical Thinking
- Organization
- Attention to Detail
- Time Management

## LANGUAGES

- Arabic (Advanced)
- English (Fluent)
- Urdu (Fluent)
- Hindi (Fluent)

## PROJECTS

### Comparative Study on Chatbot Performance (Research)

SEPT 2023 - MAY 2024

- Spearheaded a detailed comparative study of dense model and Google Dialogflow chatbots.
- Developed and optimized two chatbot models using advanced NLP techniques.
- Built a dense model to achieve accuracy of 76.87%, precision of 79.45%, & F1-score of 76.77%.
- Dialogflow demonstrated accuracy of 78.78%, precision of 78.78%, & F1-score of 78.78%.
- Managed all phases of the project from planning and design to implementation and testing.
- Proposed future work to integrate Word2Vec, RNNs, and LSTMs for better context processing.

### Facial Recognition Attendance System

FEB 2024 - MAY 2024

- Designed and developed a facial recognition system for accurate, contactless attendance tracking.
- Implemented Haar-cascade classifiers for face detection and CNNs for facial recognition.
- Developed image web-scraper for dataset creation. Created a feature to add new employees to the system.
- Developed a user-friendly interface using Python and customtkinter library.
- Achieved 83.33% model accuracy; conducted extensive testing and performance evaluation.

### Research Recruitment Web Application (MediMatch)

FEB 2024 - MAY 2024

- Developed a recruitment application using Django framework.
- Utilized Django ORM for efficient database management.
- Designed a user-friendly UI for Research and Matches pages.
- Built and utilized FastAPI for frontend-backend communication.
- Implemented data encryption and secure authentication protocols. Ensured compliance with data protection regulations and best security practices.
- Included email-verified login and a banning system for violators.
- Utilized NLP to extract key information from participant profiles.

### American Sign Language (ASL) Translator (SignPal)

FEB 2023 - APR 2023

- Created a real-time ASL Translator in python using TensorFlow, MediaPipe, Numpy, and Customtkinter libraries.
- Engineered a software solution for capturing webcam image, essential for collecting and training data.
- Employed deep learning models to detect and interpret hand gestures and movements captured by the webcam.
- Achieved robust accuracy in hand gesture recognition by training a keras model with the ASL alphabet dataset.