SYED WAJAHAT QUADRI

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Linkedin|GitHub|Portfolio

EXPERIENCE & PROJECTS

Part-Time Data Scientist | WeHearYou   Sept 2023 - Current

- 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.

Comparative Study on Chatbot Development and 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%, and F1-score of 76.77%.
- Dialogflow demonstrated accuracy, precision, and 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.

ML Engineer Intern | WeHearYou   May 2023 - Sept 2023

- 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.

American Sign Language (ASL) Translator | SignPal   Feb 2023 - April 2023

- Created a real-time ASL Translator in python using TensorFlow, MediaPipe, Numpy, and Customtkinter libraries.
- Engineered a software solution for capturing webcam images, 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.

TECHNICAL SKILLS

Front End - React, Javascript, HTML, CSS
Back End - Python, C, Java, SQL, MATLAB, PHP, Node.js
Developer Tools - Git, Phpmyadmin, Django, Anaconda

EDUCATION AND CERTIFICATIONS

Northumbria University - BSc Computer Science with Aritificial Intelligence   2021 - 2024
HarvardX - CS50P - Introduction to Programming with Python   2023

LANGUAGES

English - **Expert**
Hindi - **Native**
Urdu - **Native**
Arabic - **Basic**