Muhammad Uzair

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SUMMARY*

Software Engineer with **1+ experience in Flutter & 6 months in Python**, with expertise in cross-platform apps, AI-driven ASL translation, and delivering scalable, clean code solutions.

Technical Skills: Problem Solving · Python · Flutter · Model Training · Deep Learning · API Integration · Real-time Communication · Firebase · CI/CD · State Management · Deployment.

PROFESSIONAL EXPERIENCE

BerrySol

Python Developer | Remote   **Nov 2024 - Present**

- Developed and deployed a range of Python projects, including automation tools and data analysis applications. Implemented machine learning models for real-time data processing and enhanced system efficiency. Delivered end-to-end solutions with a focus on scalability, optimization, and clean code practices.

PERSONAL EXPERIENCE

Final Year Project (FYP) – SignSpeak: Communication Platform for Deaf People

Developed a mobile app using Flutter and Python that enables real-time speech-to-ASL and ASL-to-speech translation. Achieved 92% ASL recognition accuracy using Keras, OpenCV, FastAPI, and NumPy. Integrated Zego Cloud API for smooth video calling and animated ASL sign display.

AI-Powered Chatbot Backend.

Designed a modular chatbot backend using FastAPI and NLP libraries, structured for future integration with LangChain. Supports intent recognition, message routing, and clean API architecture ready for AI automation frameworks.

Data Insights Dashboard.

Built a full-stack data dashboard using Python (FastAPI + Pandas) and React. Processed and visualized real-time data trends with clean RESTful APIs, showcasing strong backend skills and full-stack exposure.

Intelligent Task Automation Tool.

Automated scheduling, reminders, and task updates using Python and APIs (Gmail, Trello). Implemented robust error handling and API chaining, demonstrating practical automation and API integration skills..

EDUCATION

FAST NUCES   2021-2025

Bachelor of Software Engineering (BSSE)

- **Relevant Coursework:** Object-Oriented Programming in Python · Data Structures and Algorithms · Machine Learning with Python · Data Analysis and Visualization · Database Management Systems · Web Development with Flask/Django · Automation and Scripting · Computer Vision with OpenCV · Deep Learning with Keras/TensorFlow

CERTIFICATES

- **Python for Data Science and Machine Learning Bootcamp** – *Udemy*
- **Python Programming: A Concise Introduction** – *Coursera (by Wesleyan University)*
- **Scientific Computing with Python** – *freeCodeCamp*