

Profile

As a recent graduate of computer software engineering, passionate about data science, I bring a solid foundation in data preprocessing, visualization, machine learning, statistical modeling, and model deployment. I have a deep understanding of theoretical concepts and a strong drive to provide innovative solutions for complex data challenges.

Contact



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<u>Ch</u>arsadda



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Language

- English
- Urdu
- Pashto

Muhammad Uzair

Software Engineer

Education

O BS Computer Software Engineering

(2019 - 2023)

University of Engineering and Technology, Mardan

O HSSC

(2017 - 2019)

The Peace Group of Schools and Colleges, Charsadda Campus

O SSC

(2015 - 2017)

Al-Huda Public High School, Nisatta Charsadda

Skills

- Programming Languages (Python, Javascript, C, C++)
- Data Preprocessing (Cleaning, Feature Scalling, normalization etc.)
- Power Bl
- Machine Learning Algorithms: Linear Regression, KNN, Logistic Regression, Naive Bayes, SVM, Decission Tree, Random Forest and all Ensimble techniques etc. (Scikit-Learn)
- Statistics and Probability (Probability theory, hypothesis testing, inference)
- Model Evaluation and Selection (Cross-validation, performance metrices, model selection)
- Feature Engineering (Feature selection, extraction and transformation)
- Data visualization (Maplotlib, Seaborn)
- Deep Learning: ANN, CNN, RNN etc. (Tensorflow, Keras, OpenCV)
- Natural language processing (NLTK)
- Database Design (MYSQL, PostgreSQL)
- Model Deployment using FastAPI, Flask

Additional Skills

- Full Stack Web Development (HTML, CSS, JS, Reactjs, FastAPI, Flask Microservices concept, docker)
- Web Scrapping (BeautifulSoup4)
- OOP Concepts
- Data Structure and Algorithms
- Problem Solving (Analytical, Data-driven approaches)
- Collaborative Skills(Teamwork, Communication, Presentation)

Tools and Libraries



Projects

O FYP Project:

Real-Time Sign Language Recognition with Deep Learning Approach:

Problem:

• Communication barrier between normal people and muted people.

Solution:

- Target 100 most common words of Urdu and collect videos of those words for Pakistan sign language.
- Clean the dataset and extract features for the videos and saved those features in .numpy arrays.
- Trained Sequentional models Like LSTM, GRU and LRCN.
- Integrate best-fit model with streamlit interface for real time sign translation.

Freelance Projects

• Automate machine learning tasks:

- Develope web app which perform all preprocessing steps on data show ghraphs and train ml models on .csv datasets and also show confussion matrix corrleation matrix etc. to users.
- User will give voice commands and application will perform that operations on dataset.
- Users can download trained models in .pikkle files from application.

· Chat bot using open Al Model

- Fine tune open-ai model on law dataset for chatbot.
- Integrate that model in streamlit interface for questions answers.

• Developed backend for social app in FastAPI

- This project was 3 modules
- Orgainzations: organiztions posting jobs and will hiring people on basis of applications.
- Professionals apply for job and internships and also can provide home services to visit for patient.
- Patients can search oragnizations and doctor contact them.

Personal Projects

Human action recognition

- Used kaggle dataset and trained LRCN model on random 5 classes to reconize humman actions.
- Achived 83% test accuracy on 5 classes.

Plants disease detection

- Trained models for tomato, photato, and pepper plants dataset for multiple disease detection in given plants.
- Integrate those models in streamlit web interface and deploy application.
- app link: https://plantdiseasedetectionappapp-7pvuh48449k.streamlit.app/

• Human diseases detection

- Trained CNN models for pneumonia, malaria, and bone fractures on images usinng kaggle dataset.
- App Link: https://humandiseasedetectionapp-w97gv5cgyc.streamlit.app/

Customer Churn Prediction

 Trained ANN model on Telcom_customer dataset and achived 92% accuracy to predict customer churn prediction.

Al Painter

• Using opency and mediapipe libraries build Al painter to paint on screen using multiple colors.

Al Trainer

• Using opency and mediapipe libraries build this project which is counting up down of dumbles.