

AJWA ASLAM

Artificial Intelligence | Deep Learning | Machine Learning | Azure



CONTACT

Mobile 0322-7272441

Email Ajwaaslam010@gmail.com

LinkedIn <https://www.linkedin.com/in/ajwa-aslam-5baa77182>



PROFILE

1+ years of experience

AI/ML/DL Engineer | Python | Azure

- Using tools and technologies like tensorflow, keras, OpenCV, OpenNMT, NLTK, Librosa
- Hands-on experience with multimodals e.g. worked with the fusion of two (bimodal) and three (trimodal) different streams of data i.e., text-audio-video etc.
- Hands-on experience with training various deep learning models i.e., CNN, LSTM and also developed hybrid deep learning models.
- Transfer learning various pre-trained models i.e., VGG16, VGG-19, Inception V3, Xception.
- Developed models using spacy.
- Hands-on experience with supervised and unsupervised machine learning models/algorithms.
- Experience working on sentiment and emotion analysis with multiple languages, i.e., Urdu, English, Roman English
- Experience with classic NLP Feature Extraction techniques.
- Experience with audio and video fingerprinting.
- Experience with image hashing techniques for ad-detection and also developed deep learning model for this.
- Analyzing and preparing audio, video and text data according to the problem.
- Hands-on with computer vision tasks like object detection and facial recognition.
- Experience with azure services.
- Worked on AWS OpenSearch & AWS SES



CERTIFICATIONS

- Applied Data Science with Python
- Participation in Data Science Workshop by Global AI Hub & Teens in AI



EDUCATION

MS Computer Science (2019 - 2021)

COMSATS University Islamabad, Lahore Campus
CGPA: 3.56

Thesis: Attention-based Multimodal Sentiment Analysis and Emotion Recognition using Deep Neural Networks

Paper: Ajwa Aslam, Allah Bux Sargano and Zulfiqar Habib, Attention-based Multimodal Sentiment Analysis and Emotion Recognition using Deep Neural Networks (In progress)

BS Computer Science (2015 - 2019)

COMSATS University Islamabad, Lahore Campus
CGPA: 3.59

FYP: Developing a System for Urdu Toxic Comment Detection



SKILLS & ACHIEVEMENTS

- Programming Languages (**Python, Shell, MATLAB, Java, C**)
- Python Libraries (**flask, fast api, librosa, scikit-learn, numpy, pandas, scipy, seaborn, matplotlib, nltk**)
- Machine Learning (**Supervised & Unsupervised Learning, Classification & Regression algorithms, Feature Extraction & Selection techniques**)
- Deep Learning (**CNN, LSTM, Transfer Learning, Keras, Tensorflow**)
- Computer Vision (**OpenCV, ffmpeg, moviepy, dlib**)
- Natural Language Processing (**Tokenization, Stemming, Lemmatization, Stopwords Removal, Multilingual Models**)
- Containerization Technologies (**Docker**)
- Web Development (**HTML, CSS, PHP, Java Script**)
- Tools (**Microsoft Azure, Pycharm, Jupyter, Data Crunch, Google Colab, My-SQL, SQL Server**)
- Operating systems (**Linux, Windows**)
- Good Communication & Analytical Skills.
- Won a bronze medal in BSCS in COMSATS.



EMPLOYMENT HISTORY

Machine Learning Engineer (Nov 2021 – May 2022) **Stack Intel .IO, Lahore, Pakistan**

- Developed Adwatch model through Audio and Video **Fingerprinting** using **Dejavu**
- Worked on Audio Fingerprinting using **Audfprint** for Adwatch
- Developed Real-time Facial Recognition model using **dlib**
- Developed Advertisement detection and removal model using **Deep Neural Networks**
- Dataset analysis & preparation for Urdu to English Translation model
- Worked on Urdu to English Translation Engine using **Neural Machine Translation**

Natural Language Processing Engineer (June 2022 – Present) **Cityscape Technology Corporation, Lahore, Pakistan**

- Developed Real Estate Virtual Assistant using **Microsoft Azure Services**
- Dataset collection and preparation for chatbot
- Developed Question & Answering (QNA) service using **BERT** model
- Fine-tuning **Openai GPT-3** for response generation and dataset creation
- Trained and developed address search model using **spacy**
- Developed Address Search Engine using **elastic search** and **open search**
- Developed APIs using **Flask** and **Fast API**
- Worked on **SQLAlchemy** for database creation