MUHAMMAD USMAN

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Education

PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY (3.05)	Lahore
Bachelor of SOFTWARE ENGINEETING	2015-2019
PUNJAB COLLEGE LAHORE	Lahore
ICS	2013-2015

Professional Experience

AMAL ACADEMY   Lahore, Pakistan

Education startup funded by Stanford University that teaches professional skills to students and corporations

Career-Prep Fellow: AUG 2021 – Present

- *Communication:* Completed a competitive written application and interview process to be selected from over 4500 applicants for intensive 3-month Fellowship funded by Stanford University
- *Skills development:* Investing 150 hours in order to develop business skills (e.g., communication, leadership, problem solving, teamwork, etc.) that will help me make a deeper impact on the job.

TECHVERX   Lahore, Pakistan

A technology company that has been developing quality software solutions.

Data Scientist*: Aug 2021 – Present*

- Auto Correct: Developed a NLP based word auto correct system using different NLP techniques.
- Sentiment Analysis*:* Trained a machine learning model for sentiment analysis for tweets that will marked the tweet as a positive or a negative tweet. Scrapped millions of tweets from twitter.

NEURALNEST AI   Lahore, Pakistan

An Artificial Intelligence/Web services provider company.

Data Scientist*: May 2021 – Aug 2021*

- Recommender system (AWS PERSONALIZE)*:* Trained venue recommendation system on **AWS** personalize Configure and manage data through AWS api Configure model through AWS api
- Web Scraping*:* Automating web scraping tasks using Selenium bots. Maintaining sessions using selenium standalone and by passing captcha's for retrieval of data. Used the BeautifulSoup Python Library to extract desired data from a given URL an automated way.

PROGRAMMERS FORCE   Lahore, Pakistan

A fintech and AI- based firm.

Data Scientist: Aug 2019 – Jan 2021

- Face Recognition System*:* Outperformed results of AWS Deep vision API for face recognition. Trained siamese network for face recognition. Built in house face dataset.
- Face Liveness Detection: Exceeded benchmark results for face liveness detection for video sequences Implemented state of the art object tracker and custom face detector. Trained tree based Zeroshot Convolutional Neural Networks (**ZCNN**) followed by a novel **LSTM** model on in-house curated datasets. Identified various types of spoof attacks whilst surpassing human level performance.

Academic Experience

E-LINK (FYP)   Lahore, Pakistan

Chatting Website using peer to peer technology (University of the Punjab)

Lead Developer: Jan 2019 – Nov 2019

- Video chatting: Developed a website on which we were offering chat and video communications using WebRTC technology and development was in PYTHON and Django.

ACADEMIC SCHOLARSHIPS   Lahore, Pakistan
– Received full merit-based academic scholarship from Punjab College (2013-2019)

ONLINE COURSES   Lahore, Pakistan
– Deep learning Specialization | DEEPLEARNING.AI – Coursera.com (2019)

AWARDS AND CERTIFICATIONS   Lahore, Pakistan
– Received merit-based Laptop Award from Chief Minister Punjab (2014)

Additional

– *Technical Skills:* Python, Machine Learning, Deep Learning, nlp, Keras, Tensorflow, Pandas, Numpy, Scikit-learn, Django
– *Language: English, Urdu*