

Ahmad Zubair

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EDUCATION

Lahore University of Management Sciences

Bachelor of Science in Computer Science

Lahore, Pakistan

Sept. 2019 – June 2023

Beaconhouse Faisalabad

Advanced Levels

Faisalabad, Pakistan

Sept. 2017 – May 2019

St. Mary's Catholic High School

Ordinary Levels

Fujairah, UAE

Sept. 2014 – May 2017

EXPERIENCE

Research and Development Team Lead

Machine Learning 1

Sept. 2023 – Present

Lahore, Pakistan

- Created and fully automated **Dockerized MLflow** Pipelines used to train approximately 1200 models.
- Conducted in-depth research on a variety of problems like **DeepFake** detection and **age** estimation.
- Trained a large variety of models and performed analysis for a variety of KYC related problems. Increased the **automation rate** by 4%
- Setup CI/CD pipelines using Gitlab, Gitlab runners and Docker.

AI Consultant

FIVO Energy

July 2023 – Aug. 2023

Lahore, Pakistan

- Worked on a complete MERN solution for internal documentation and quotations generation.
- Developed a **time-series** price prediction that was deployed for day to day predictions.

Deep Learning Internship

Aletheia AI

July 2022 – Sept. 2022

Lahore, Pakistan

- Developed and deployed a multi-camera **facial recognition software** and produced seamless streams between multiple cameras.
- The software included support for **multiple cameras**, which were then processed using facial recognition algorithms.
- Hands on with Redis, TensorFlow, Docker, React, Node, etc.

Research Assistant

Computer Vision and Graphics Lab LUMS

Sept. 2022 – June 2023

Lahore, Pakistan

- Working on an early detection system of **forest fires** in Northern Pakistan.
- Research is funded by **WWF** and a scientific paper was submitted to the **ICASSP conference**.
- Working on recreating a **digital twin of forests** for generating synthetic datasets of forest fires.

PROJECTS

Data Science Project on ESRB | *Pandas, NumPy, Seaborn, Matplotlib*

November 2022

- Performed exploratory data analysis on an ESRB game ratings dataset, and applied various models including SVMs, Naive Bayes, Decision Trees/Random Forests.
- Published a detailed article on [medium](#) of the entire process.

SPADES Event Manager at LUMS |

Sept. 2020

- SPADES conducts Pakistan's largest science olympiad called PsiFi.
- Won the PsiFi star, given for managing 50-60 students at the event.

PetNet Application | *React, React Native, MongoDB, Node.js*

April 2022

- Application for Pet Owners to make **appointments** with **clinics**.
- Worked on frontend and UI/UX using React and React Native, as well as on integration with backend and DB.

Multi Language Classifiers | *Pandas, NumPy, Sklearn*

November 2022

- Generated own novel dataset by answering common questions in audio format for 3 different languages: Urdu, English, and Mixed.
- Converted the audio files to **MFCC** representation, performed **cross validation** and trained 3 models: **kNN**, **SVM**, and **Neural Networks**.

AWARDS & ACHIEVEMENTS

Major GPA: 3.75
Graduated with High Merit.
Dean's Honour List for Sophomore Year.
Distinction and top of class throughout high school.
High achiever certificate along with a medal.
Distinction in spoken language(English).
3rd in Science Fair, and certificate of excellence in Science Fair.
Athletic awards (3 Gold and 1 Silver) and other extracurricular activities (Environmental activities).
PsiFi Star.
Award for graduating Stacks Clarity Cohort.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, SQL, R, Haskell, Assembly Language (x86), Clarity, HTML/CSS
Libraries: TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, Seaborn
Frameworks: FastAPI, React, React Native, Node.js, Material-UI, Express.js, MongoDB, MySQL
Developer Tools: MLflow, Kubernetes, Docker, Git, VS Code, Visual Studio, PyCharm, Jupyter, MATLAB, LaTeX, SolidWorks, Proteus
Math Courses: Applied Probability, Statistics, Linear Algebra, Calculus 2
CS Courses: Deep Learning, Natural Language Processing, Computer Vision, Machine Learning, Data Science, Data Mining, Human Computer Interaction, Blockchain/Smart Contracts
Educated in Marketing and Accounting tactics and techniques.