Mirza Elaaf Shuja

elaaf.shuja@gmail.com | **elaafshuja.github.io** | **github.com/elaafshuja** | **linkedin.com/in/elaaf**

+92 317 4246496 | Lahore, Pakistan

Education

Information Technology University (ITU), *Lahore Pakistan*   **2018 - Present**
Masters in Data Sciences

National University of Sciences and Technology (NUST), *Islamabad Pakistan*   **2013 - 2017**
Bachelors in Electrical Engineering

Skills

Programming: Python, C/C++, JavaScript.
Software/Frameworks: Jupyter Notebooks,Numpy,Sklearn,Pandas,TensorFlow,Pytorch,Hadoop,Spark.

Experience

Machine Learning Engineer - ADDO AI   **2019 - Present**
Working as a Machine Learning Engineer / Junior Data Scientist to deliver production
ready Machine Learning / AI solutions deployed on GCP or AWS.

Machine Learning Engineer - *DATICS.AI*   **2018**
Worked on Pathfinding algorithms (A*, JumpPoint etc.) for automated circuit
routing on a PCB.

Firmware Engineer - BlueEast, Orient   **2017 - 2018**
Worked on the next iteration of firmware for IOT capable appliances produced by
Orient Group of Companies. Implemented Local Storage on IOT devices using SPIFFS
and Google's Protocol Buffer Serialization.

Recent Projects

Unsupervised Attention Guided Image to Image Translation   **2019**
Implementing an Attention guided Cycle-GAN to perform image to image translation or
Style transfer after training on unpaired image data. [PDF]

Emotion Detection from Face Expressions   **2019**
Design and train a model to classify Facial Expression of Pakistani Talk Shows into
emotions and evaluate the bias introduced by the inherent racial bias of training data. [PDF]

Arrhythmia Detection using ECG Classification   **2018**
Designed and Trained a Residual CNN to classify ECG waveforms into five different
types of arrhythmia using keras with tensorflow backend.

Achievements

- Studied on Scholarship until Bachelors.
- Bachelors FYP was offered funding by investors to develop a market ready product during SEECS Open House 2017.
- Ran 4 km in 23 minutes.