

# Umar Shahid

## Data Scientist

Last update: April 19, 2023

Up-to-date version of CV is available at

<https://umarshahid.github.io/Profile/>

Residence: [Flat-211-B, Mehar Apartments, H-13, Islamabad](#)

LinkedIn: [umar-shahid](#)

GitHub: [umarshahid](#)

StackOverflow: [umarshahid](#)

Email: [umarshahdin@yahoo.com](mailto:umarshahdin@yahoo.com)

Python	++++	Pandas	++++	NumPy	++++	PyQt5	++++	Statistics	++++	C/C++	+++
MATLAB	++++	Latex	+++								

## Professional Experience

### Pakistan Air Force, Islamabad

Data Scientist

11/2021 - Present

#### Responsibilities:

- Development 4 major modules for analysis of Airforce's training
- Development of Video, Audio and Text Data analysis tools
- Creation of an Integrated Environment for all three tools to operate comprehensively
- Comprehensive Data Recording on a Client/Server Environment
- Descriptive Data Analysis & Visualization and Stream Back to Network
- Review and Analyze Comprehensive Video and Audio Playback

Python Pandas NumPy Data Science Data Analysis Statistics & Probability PyQt5

### Research Center for Modeling and Simulation, NUST, Islamabad

Research Assistant

Oct 2019 – Oct 2020

Brain State Monitoring of Pilot During Flight with Head Mounted Device using Machine Learning.

#### Responsibilities:

- \* Data collection for EEG based brain state monitoring
- \* Descriptive data analysis and visualization using MATLAB
- \* Data classification and prediction using Machine and Deep Learning Techniques
- \* Assistance to Project Supervisor

AI, ML & DL Neuro-ergonomics Brain Computer Interface (BCI) Electroencephalography (EEG)

## Education

### MS Systems Engineering, (Communication Systems and Networks)

National University Of Sciences and Technology (NUST), Islamabad

Sep 2018 – Oct 2020

Data Science Neuro-ergonomics Human Computer Interface (HCI)

## BS Information Technology, (Computer Sciences, Artificial Intelligence)

The Islamia University of Bahawalpur (IUB), Bahawalpur

Sep 2018 – Oct 2020

Software Development Artificial Intelligence

### Master's Thesis

## EEG Based Mental Workload Assessment Using Machine Learning, NUST, Islamabad

Under Supervision of Dr. Shahzad Rasool, Dr Adnan Maqsood & Dr. Ammar Mushtaq

Oct 2019 – Oct 2020

EEG is an objective assessment technique used to record brain activities to monitor brain states such as, stress, emotions, drowsiness and workload. In this research, EEG is employed to assess mental workload from human brain. We developed a pipeline for real-time EEG based mental workload assessment using deep & machine learning.

AI ML & DL Neuro-ergonomics Brain Computer Interface (BCI) Electroencephalography (EEG)

### Projects

- [Realtime Pipeline for EEG based Mental Workload Assessment](#) MATLAB R2019b - Dec 2019 - Oct 2020
- [Vehical Number Plate Recognition System](#) MATLAB R2014a - Mar 2018 - July 2018

Hobbies: Sketeching Book Reading Music Surfing Internet