Umar Shahid
Systems Engineer

Last update: March 28, 2021

Up-to-date version of CV is available at
https://umarshahid.github.io/Profile/

Residence: House 2, street 4, warind colony, Sadiqabad, Rahim Yar Khan

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C/C++	+++	MATLAB	++++	Python	+++	HTML	+++	CSS	+++	Latex	+++
MS Word	++++	MS Excel	+++	MS Powerpoint	++++						

Professional Experience

Research Center for Modeling and Simulation, NUST, Islamabad

Research Assistant

Oct 2019 – Oct 2020

Machine Learning Pipeline for Mental Workload Assessment.

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 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 and Management

The Islamia University of Bahawalpur (IUB), Bahawalpur

Sep 2018 – Oct 2020

Software Developement | 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

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  * 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.
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Projects

- Realtime Pipeline for EEG based Mental Workload Assessment PHP 5.3 - Dec 2019 - Oct 2020
- Vehical Number Plate Recognition System MATLAB - Mar 2018 - July 2018

- Hobies: Sketeching | Book Reading | Music | Surffing Internet