



Saqib Hayat

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WORK EXPERIENCE

[01/11/2021 – Current]

PhD-AI

Campus Bio Medico University of Rome

City: Rome

Country: Italy

Currently, I am enrolled in the PhD-AI area of Health Sciences at the Campus Bio-Medico University of Rome. This research project aims to develop a machine learning-based model to extract or estimate the mental state including stress, anxiety, and self-confidence. This project aims to study, develop, and evaluate an automatic framework to detect and monitor the nature of stimuli and estimate the mental state of an individual using machine learning techniques. Various wearable devices including EEG are used for biosignals acquisition and Python, Keras, Numpy, Pandas, and other libraries are used for software development.

[01/09/2015 – 31/10/2021]

Lecturer

National University of Computer and Emerging Sciences, Islamabad, Pakistan

<https://www.nu.edu.pk/>

City: Islamabad

Country: Pakistan

As a Lecturer in the Department of Computer Science at the National University of Computer and Emerging Sciences, I have taught and conducted various labs and courses including:

1. Object-Oriented Programming
2. Database Systems
3. Data Structures
4. Android Development for Mobile Devices

Programming Languages: Python , C++ , C# , Java

Tools: Jupyter Notebook, Microsoft Visual Studio, SQL Server Management System, Android Studio, Visual Studio Code

Database: SQL, MySQL, Firebase Database

[17/06/2013 – 31/07/2015]

Software Engineer

NetSol Technologies <http://www.netsoltech.com/>

City: Lahore

Country: Pakistan

As a part of Netsol, I have worked on automobile leasing financial software as a backend developer. The role involves developing and maintaining new features in the .Net framework.

Environment: Agile development methodologies, Scrum

Technologies: .Net framework, C#, WPF, MVVM, CI/CD, Git, Jira, SVN, GitHub, REST APIs

Tools: Microsoft Visual Studio, SQL Server Management System

Database: SQL

EDUCATION AND TRAINING

[08/2016 – 01/2019]

Master in Computer Science, MS(CS)

National University of Computer and Emerging Sciences, Islamabad, Pakistan

<https://nu.edu.pk>

Address: FAST University, 3 A.K. Brohi Road, H-11/4, Islamabad, Pakistan

Final grade: CGPA 3.29/4.0 (82.3%)

Thesis: A Novel Approach for Segmentation of 3D Motion Capture Data Using Convolutional Neural Network

We propose a novel framework to segment 3D human motion capture data into distinct behaviors. First, in preprocessing, we build a normalized pose space by eliminating translation and orientation from the 3D poses. We then transform these normalized 3D poses into 2D RGB images, and as a result, we simplify the task of motion segmentation as image classification and recognition. Furthermore, we identify the most significant joints of the skeleton that contribute substantially to executing a motion and get benefits from them by assigning them more weights. The weight allocation to the specific joint has been done purely based on its deviation capability. Finally, each motion is encoded into a compact visual representation by exploiting RGB images with weighted joints. We adopt a transfer learning approach to extract a fixed-size feature vector using an off-the-shelf deep Convolutional Neural Network (CNN),

[08/2009 – 07/2013]

Bachelors in Computer Science, MS(CS)

National University of Computer and Emerging Sciences, Islamabad, Pakistan

<https://nu.edu.pk>

Address: FAST University, 3 A.K. Brohi Road, H-11/4, Islamabad, Pakistan

Thesis: Distributed e-Health Care Management System

The scope of the e-Health Care System was to timely diagnose the patients of rural areas from expert doctors. The following main points were under consideration:

- Establish coordination among rural and city doctors.
- Maintaining patient history.
- Monitoring remote patients.

PUBLICATIONS

[2021]

[DeepSegment: Segmentation of motion capture data using deep convolutional neural network](#)

CONFERENCES AND SEMINARS

[26/09/2023 – 30/09/2023]

Artificial Intelligence Summer School, Rome Campus Bio Medico University of Rome (Università Campus Bio-Medico di Roma)

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s): English