SYED AQEEL ALI SHAH

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EDUCATION

Bachelor of Science in Electrical Engineering (Communication)   **Oct 2015-Nov 2019**
University of Engineering & Technology Peshawar, Pakistan.
CGPA : 3.12/4.0 (1ST Division, 78.0%)

RESEARCH INTERESTS

My Research Area of Interest is deeply aligned with latest research trend in Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision and Data Science.

RESEARCH EXPERIENCE

Machine Learning Researcher   **Sep 2018-June 2019**

National Center of Artificial Intelligence, University of Engineering & Technology Peshawar, Pakistan.

- Role as Group Lead of Final Year Project/Thesis as part of Undergraduate Degree.

- To undertake Machine Learning Research against Modified Voices as threats for Speaker Identification Systems and Voice Recognition.

- Proposed Machine Learning model could identify the actual speaker of the modified or tampered voice.

- Preventing Vulnerable Speaker Identification Systems from voice tampering scams.

- Use of KNN Classifier for optimal training on large voice Dataset.

Embedded Systems Circuit Designer (Intern)   **Sep 2017 – June 2018**

 Center of Intelligent Systems and Network Research (CISNR)

- To design electronic circuits for Micro-controller and Arduino based Embedded Systems.
- Writing C language Codes on "Keil Software" and Simulation on "Proteus" for Micro-controllers and Arduinos.
- Use of Remote Sensors, GPS modules, Wi-Fi modules for Internet of Things based remote sensing and control mechanism.

TEACHING EXPERIENCE

Lab Assistant, Introduction to MATLAB   **Dec 2018 - April 2019**

Department of Electrical Engineering, University of Engineering & Technology, Peshawar

- Basic Introduction to MATLAB and its commands

- To design different frequency audio signals and applying different types of filters to select particular frequency for output and frequency response analysis.

- To check out various features of Images and their plot

- To design control systems model on Simulink.

Mentoring and Career Counseling Experience for College Students

Chitral Engineers & Doctors Association.

- To arrange different awareness sessions for college students to choose particular fields based on their study interest and to provide links, information etc of top institutions and the courses offered.
- To arrange mock tests for college students to give them idea of undergraduate admissions entrance tests of various Engineering Universities in Pakistan.

HONORS AND AWARDS

Aga Khan Education Service (AKES) Undergraduate Study Scholarship.   2015-2019

- Selected based on College Marks, test, Interview and future goals.
- $2280.7 to cover 4 years Bachelor's Degree University and Hostel Charges.

Regional Organization for Supporting Education (ROSE) Scholarship.   2015-2019

- Selected based on College Marks, test and Interview.
- $2800 to cover course materials and transportation charges.

School Topper   :   **2013**
- Highest marks achiever in School and Class in Matriculation Examinations

District Topper :   **2015**
- Highest marks achiever all over the District Chitral in FSc Pre-Engineering Examinations
- Awarded with Cash prize of $500

PROFESSIONAL EXPERIENCE

Operations Engineer, Light-bridge Communication Company Pvt Ltd.   **Sep 2019-Present**

- Business partnership with Huawei for Operation Web Services (OWS) implementation and compliance of the work orders for Ufone GSM
- Office work and technical field work engineer.

Internships

Aga Khan Rural Support Program, Pakistan.   **July 2017- Sep 2017**
- Engineering Management, Technical Report Writing, Result Drafting, Operation & Maintenance of Micro Power Houses (MHPs).

Sarhad Rural Support Program, Pakistan.   **June 2018 - Sep 2018**
- Engineering Management, Technical Report Writing, Result Drafting, Operation & Maintenance of Micro Power Houses (MHPs).

Light-bridge Communication Company.   **June 2019- Oct 2019**
- Key Performance Indicators Analysis, Daily based Network Availability and Stability Reporting, Support and Motivate Field Engineers in technical issues and to achieve monthly set performance target.

Technical Skills

- Strong programming skills in Python, MATLAB, Signal Processing, C/C++, Micro-controllers and Arduinos
- Electronic Circuit Design for practical implementation of projects
- Professional and technical skills
- Research work and longtime study planning.
- Data collection and analysis
- Critical thinking and observation

Language Proficiency

- English : Full Proficiency
- Urdu : Fluent

References

1. Dr. Ramzan Ali (Current Postdoc fellow at University of Oxford)
   Assistant Professor
   Department of Mathematics, University of Central Asia, Kyrgyzstan.
   ✉ Ramzan.ali@ucentralasia.org

2. Dr. Gul Muhammad Khan
   Associate Professor
   Department of Electrical Engineering, University of Engineering & Technology, Peshawar.
   Director, National Center of Artificial Intelligence, University of Engineering & Technology, Peshawar.
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