

HASSAN IFTIKHAR

Village Chaher Tehsil Rawalakot District Poonch AJK

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Profile: [Hassan Iftikhar](#) | [LinkedIn](#)

SUMMARY

An electrical engineering student with a passion to study and progress. Data science, Machine Learning, and Artificial Intelligence are areas in which I am particularly interested and skilled. Eager to obtain a challenging and demanding role in electrical engineering and machine learning. In my different professions, my education has provided me with expertise, experience, skill, competency, and technique.

EDUCATION Namal University Miawali

Bachelor in Electrical Engineering CGPA: 3.42/4	2018 - 2022
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Degree College Rawalakot Faculty of Engineering Science Percentage: 80%	2016 - 2018
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SST Public School Rashidabad IGCSE / O level Grades: 4A, 2B	2012 - 2015
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PROFESSIONAL EXPERIENCE

Data Engineer – DCUBE Technologies Working as a Data Engineer at DCube Tech.	2021 - present
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- Moving raw data (360 shots) in the form of batch from one server to another server.

Leader – CESD Namal University Miawali Worked as a General Secretary of Center of Excellence and Skills Development (CESD)	2019 - 2021
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- 55-person leadership team and startup development
- Creating annual event calendars
- Arranging technical and non-technical short courses, as well as instructive and industrial level seminars

PROJECTS

Modelling and Simulation of heat exchange and moisture content in cereal silo: Based on the heat transfer of stored grains aerated in a cylindrical silo, a mathematical model was created using MATLAB and Simulink. The LSTM model was also utilized to forecast sensor readings. The silo design was also built using AutoCAD.

Handwritten Digit Recognition: This project was first implemented by making functions of cost functions and gradient descent of ANN. Later CNN was used to classify images.

Controlling a Lego Robot: This was a project for a control system. Simulink was used to construct a PID controller for driving a Lego robot.

Smart circuit breaker: STM microcontroller was used to make a password-protected circuit breaker. STM32CubeMX software was also used.

Tic Tac Toe game using python: Python was used to create the computer versus human and human vs computer tic tac toe games.

Single Octave Synthesizer: A modest one-octave piano was one of several Arduino creations. Because of the varied volt, different frequencies were created in an octave synthesizer.

FINAL YEAR PROJECT

Retinal vessel segmentations using dynamic deep networks

Blood vessels with varying contrast have both thick and thin vessels which need to be extracted with high accuracy. Changes in the vessel tree structure can indicate a variety of eye abnormalities. To aid clinicians in the diagnosis of diabetic retinopathy by more correctly recognizing small vessels. We can save people's sight by diagnosing this condition at an early stage. UNET, a convolutional neural network architecture, is employed for this purpose since it is best suited for medical image segmentation.

CO-CURRICULAR ACTIVITIES

General Secretary , CESD Namal University Miawali	2019 – 2021
Teacher of physics and mathematics , Namal Society for social impact	2018 – 2019
Graphic Designer , Voice of Namal	2019 – 2020
Event Manager , Namal Sports Society	2019 – 2020

SKILLS & INTERESTS

- ✦ **Programing Languages:** python, MATLAB, C++, Verilog VHDL, Assembly, Kotlin
- ✦ **Tools/Software:** Microsoft Office, Proteus, OrCAD, MATLAB, Simulink, Android Studio, Adobe Photoshop, Anaconda, Packet Tracer, Visual Studio, AutoCAD
- ✦ **Artificial Intelligence**
- ✦ **Quantum Physics**

CERTIFICATIONS

- ✦ **Machine Learning:** Coursera
- ✦ **Data Analytics Consulting Virtual Internship:** KPMG
- ✦ **Diabetic Retinopathy Detection with Artificial Intelligence:** Coursera
- ✦ **Engineering Program:** General Electric USA
- ✦ **Youth International Conclave Model United Nation 2020:** YIC
- ✦ **Python for Data Science:** Solo Learn
- ✦ **C++:** Solo Learn

ACHIEVEMENTS

- ✦ Full Merit Scholarship in Bachelor of Electrical Engineering
- ✦ Merit Scholarship in IGCSE