

# Nimra Idris Siddiqui

[nimraidris7@gmail.com](mailto:nimraidris7@gmail.com) | [nisiddiqui@student.ysu.edu](mailto:nisiddiqui@student.ysu.edu) | Cell: 330.881.2753 | <https://www.linkedin.com/in/nimraidris/> | <https://github.com/nimrausa>

## OBJECTIVE

Seeking an opportunity to enroll and work as software engineer intern, that offers growth and development based on proven ability and to make a positive contribution through my knowledge, skills, and commitment to continually strive for perfection.

## SKILLS

- Proficiency with algorithms and data structures
- Programming Languages: Java, Python, SQL
- Software: MATLAB, LogiSIM, ModelSim

## WORK EXPERIENCE

### Graduate Assistant | Department of Computer Science, Youngstown, OH, USA

Sept 2022 – Present

- To design and develop an accessible computing curriculum for students with autism spectrum disorders
- To implement the computing curriculum at local middle school(s)
- And to evaluate the effectiveness of the accessible

### Graduate Assistant | Department of Electrical Engineering, Youngstown, OH, USA

Jan 2022 – March 2022

- Working in the Digital Circuit lab as a teaching assistant and doing project on analog device to control it with Keil software
- Managing all the operations and departments software (MATLAB, LogiSIM, ModelSim).

### Summer Internship | University of Malaysia.

June 2019 – July 2019

- Designed assembly and product component models using CATIA V5 design software.
- Executed in the Power Electronics and Renewable Energy Laboratory under the valuable guidance & supervision of Professor DR SAAD MEKHILEF.

**Key Tech Stack** – CATIA V5, AutoCAD, Tecplot (CFD simulation), ANSYS (Fluent), MS Office, DSP, DSO

## EDUCATION

Youngstown State University, Youngstown, Ohio, USA **GPA: 4/4**

**Major in Computing and Information System**

**Expected Graduation: Dec 2023**

Aligarh Muslim University, Aligarh, UP, India

**GPA: 4/4**

**Bachelor of Technology in Engineering**

**Undergrad: Aug 2022**

## PUBLICATION

- Artificial Jellyfish Search Algorithm-Based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter.

<https://www.mdpi.com/2079-9292/10/19/2402> **MDPI Publication:** Selective harmonic elimination in a Cascade H-Bridge Multilevel Inverter (CHB-MLI) by using new Metaheuristic optimization algorithms that is inspired by the behaviour of jellyfish in the ocean.

- Performance Evaluation of Multilevel DC-AC Converter To Interface EV Battery For V2H Application.

<https://ieeexplore.ieee.org/document/9654685> **IEEE North America Power Symposium Texas A & M:** Two SCMLI topologies have been studied for V2H applications.

## RELEVANT COURSEWORK

**Data Structure and Algorithm in Java** | Machine Learning | Cloud computing and Big data |

Advance Database Design and Administration | Principle of computer Programming |

Computer Arithmetic | Modern Electric Drives | Advance Engineering Mathematics |

## PERSONAL PROJECTS

- Multiple disease prediction webapp

<https://nimrausa-public-multiple-di-multiple-disease-prediction-tnr77l.streamlitapp.com/>

- A person can check whether he/ she has diabetes, heart disease, or Parkinson's prediction by just putting the values in the app and checking the result. The data for a different set of results are taken from Kaggle so the person can get accurate results.

- **Breast Cancer Classification with Neural Network:** Build a simple Neural Network (NN) with TensorFlow and Keras in Python.

- **Customer Segmentation using K-Means Clustering:** Build the Customer Segmentation system using K-Means Clustering.

- **MNIST Handwritten digit classification using deep learning:** Build a Neural Network (NN) with TensorFlow and Keras in Python to recognize the images.

- **Credit Card Fraud Detection using Machine Learning in Python:** Build a Credit card Fraud Detection system using Machine Learning with Python by using the Logistic Regression model.

## VOLUNTEERING WORK

**Technical coordinator and marketing manager, AMU Roboclub**

**June 2019-July 2019**

- It is adherence to the curriculum, teamwork interaction and importantly project developments.

**HOPE FOUNDATION:** Hope Foundation Trust is working for the Social, Economic and Educational upliftment of minorities and downtrodden people of India. I am working as an active volunteer for assistance and contribution toward the noble cause.