

# Mudassar Raza

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## Indian Institute of Technology (ISM) Dhanbad

B.tech : Electronics & Communication Engg. (2016-2020)

GPA: 8.4/10

## Projects: -

- **Traffic Sign Recognition and Classification using OpenCV and Deep Learning:**
  - Implemented VGGNet to achieve ~97% correct classification rate for 47 different classes with ~4.5K training images taken from LISA Dataset.
  - Designed a python script using OpenCV to use the inference graph from the trained model to detect the signs in real-time webcam feed.
  - Extended the script to handle the video feed and the image feed.
- **Handwritten Digit Recognition:**
  - Designed a classification model for identifying hand-written digits employing multilayered Convolutional Neural Networks.
  - Achieved ~85% accuracy on MNIST dataset with a set of ~60k training images.
  - Implemented the scripts for KNN, Random Forests Algorithms to compare the accuracies of different methods.
- **Stock Market Prediction:**
  - Developed a model for trading price prediction using LSTM Recursive Neural Networks.
  - Utilized the Quandl data set to implement the model on Tensorflow & Keras.
- **Robocon'18: ABU Asia-Pacific Robot Contest (National level):**  
*Guide: Dr. Kaushik Mazumdar, IIT(ISM) Dhanbad*
  - Designed code for Autonomous Robot line follower using LDR arrays in Arduino.
  - Implemented the code of Servo & Stepper motors for the specific rotation of Manual Robot's arm.
  - Developed a protocol using Ultrasound sensors for Autonomous Robot to identify the path it has to follow next.

## Technical Skills: -

- **Programming Languages:** Python, C, C++, SQL
- **Scripting Languages:** PHP, HTML, Markdown
- **Platforms & Tools:** Linux, Tensorflow, Keras, OpenCV, Matlab, Arduino

## Problem Solving / Competitive Programming: -

- **Hackerrank-** Problem-solving (6 star) | over 100 problems solved (username: mrza1312)
- **Hackerearth-** over 100 problems solved, (username: mrza1312)
- **Codechef-** Maximum rating: 1793 (username: mrza1998)

## Extracurricular Activities: -

- **Robotics & AI Club | IIT(ISM) Dhanbad**
  - As a core-team member, assists in teaching and organizing sessions to guide juniors on Robotics & Programming.
- All India Rank (AIR) 7679 in JEE MAINS 2016 among 10 Lakh candidates.
- 1<sup>st</sup> Rank in state in Senior Science Olympiad Bhopal 2013-2014.