# MD. MAHEDI HASAN RIDAY

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## AREAS OF INTEREST

Machine Learning | Deep Learning | Computer Vision

## EXPERIENCE

### Teaching Assistant

**Southeast University**

June 2019 - October 2019 Dhaka, Bangladesh

- Planned and prepared teaching aids, such as worksheets, Short Articles, slides to assist with daily lessons.
- Assisted Thesis team.
- Tutored students with special needs.

## EDUCATION

### Southeast University

**Bachelor of Science: Computer Science and Engineering**

2019 Dhaka, Bangladesh

CGPA : 3.72

## RELATED COURSES AND CERTIFICATE

### Deep Learning Specialization

**Coursera**

January 2020

### Computer Vision Nanodegree

**Udacity**

September 2019 - December 2019

## CO-CURRICULAR ACTIVITIES

- Worked as an online volunteer for a Facebook-Udacity Scholarship challenge on Secure and Private AI.

## SKILLS

- Deep Learning Algorithm and it's Framework: CNN, RNN, MLP, PyTorch, Keras
- Programming Language: Python, C++, C
- Image Processing: OpenCV
- Others: Git, Latex, Ubuntu

## PROJECTS

**Landmark Detection & Robot Tracking**

- Implement Simultaneous Localization and Mapping (SLAM) for a two dimensional world and created a map of an environment from only sensor and motion data gathered by a robot. [On-Going]

**Image Captioning**

- An image captioning model using Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN) knowledge to build a deep learning model that produces captions given an input image.[Code]

**Facial Keypoints Detection**

- Using computer vision techniques and deep learning architectures developed a facial keypoint detection system. Facial keypoints include points around the eyes, nose, and mouth on a face.[Code]

**Aerial Cactus Identification**

- Using Convolutional Neural Network, Developed a model to identify a specific type of cactus in aerial imagery. [Code]

**Generating Anime Faces**

- Developed Generative adversarial network based model for generating anime faces.

**Identifying Pneumonia by Image-Based Deep Learning Model**

- Developed a Convolution Neural Network based model to detect Pneumonia using X-Ray images of Chest.[Code]