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## SKILLS

Python Data Analysis

Machine Learning

Deep Learning

Reinforcement Learning

## LANGUAGES

English

Bengali

Hindi

# SAGNIK SINGHA ROY

A self-motivated graduate with Data Analysis, Machine Learning and Deep Learning as areas of knowledge. Seeking a position where background in these relevant fields can drive innovative decision making.

## EDUCATION

### B.Tech (Information Technology)

Heritage Institute of Technology, Kolkata

08/2015 - 06/2019

CGPA - 6.68

### West Bengal Council of Higher Secondary Education (WBCHSE)

Mahesh Sri Ramkrishna Ashram Vidyalaya, Hooghly

05/2014

% of marks - 85.8

### West Bengal Board Of Secondary Education (WBBSE)

Mahesh Sri Ramkrishna Ashram Vidyalaya, Hooghly

05/2012

% of marks - 86.6

## PROJECT EXPERIENCE

### Analysis of aquifer (02/2021)

- Exploratory data analysis of features and determine how these features influences the water availability of waterbody given in aquifer dataset.
- Understanding of volumes and time series forecast, to predict water availability for each time interval of the year.

### Classify structures of shallow clouds organization from satellite images (01/2021 - 02/2021)

- Main objective is to classify different types of cloud organization, that can help to build better climate model.
- Used feature extraction methods and convolutional neural network based architecture to classify and segment the target cloud structures.

### Identification of Pneumothorax disease in chest x-rays (01/2021 - 02/2021)

- Pneumothorax is usually diagnosed by a radiologist on a chest x-ray.
- Used feature extraction methods and convolutional neural network based architecture to find the area of pneumothorax from a set of chest radiographic images

### Parkinson's disease detection (09/2020 - 10/2020)

- Detection of Parkinson's disease using voice feature dataset recorded from a group of normal people and people with Parkinson's disease.
- Exploratory data analysis of features and used machine learning and deep learning methods separately to measure the accuracy of classification

### Image super resolution, enhancement and deblur (05/2020 - 06/2020)

- Transformation of low resolution image to high resolution using sub pixel convolutional neural network.
- Enhancement of low light images by self attention based multiscale convolutional neural network.
- Deblurring of motion blurred images using generative adversarial network, scaled neural networks.

### Atari game play using multiple Deep Reinforcement Learning Algorithms (01/2020 - 02/2020)

- Trained deep neural networks, applying multiple reinforcement algorithms to analyze performance.
- Overall performance to generalize states and achieve rewards improved after 4-5 hours of training.

## CERTIFICATIONS

AWS Computer Vision: Getting Started with GluonCV (04/2020 - Present)

Coursera

## DECLARATION

I hereby declare that all the above given factors are true and correct to the best of my knowledge

Date : 03/2021 Place: Uttarpara, Hooghly

Sagnik Singha Roy