# SAGNIK SINGHA ROY

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📍 **Uttarpara, West Bengal**

## EDUCATION

| | | |
|---|---|---|
| **West Bengal Board Of Secondary Education (WBBSE)** | | Grade |
| **Mahesh Sri Ramkrishna Ashram** | | **86.6** / 100 |
| 📅 05/2012    📍 Rishra, Hooghly | | |

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|---|---|---|
| **West Bengal Council of Higher Secondary Education (WBCHSE)** | | Grade |
| **Mahesh Sri Ramkrishna Ashram** | | **85.8** / 100 |
| 📅 05/2014    📍 Rishra, Hooghly | | |

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|---|---|---|
| **B.Tech** | | DGPA |
| **Heritage Institute of Technology** | | **6.68** / 10 |
| 📅 08/2015 - 06/2019    📍 Kolkata | | |

## PROJECTS

### 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.

### Image super resolution, enhancement and deblur
📅 05/2020 - 06/2020
- Converting low resolution image to high resolution using efficient 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.

### Classify structures of shallow clouds organization from satellite images
📅 08/2020 - 09/2020
- Classifying different types of cloud organization, researcher can build better climate model.
- Used encoder decoder based architectures 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 neural networks to classify and segment the area of pneumothorax from a set of chest radiographic images.

### Analysis of aquifer
📅 02/2021
- Determined how features influence 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.

## SKILLS

**Python**    **Machine Learning**    **Deep Learning**    **Reinforcement Learning**

## CERTIFICATIONS

### AWS Computer Vision: Getting Started with GluonCV
**Coursera**