Arka Sikder

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Education

- ***Jadavpur University***
  Bachelor of Power Engineering: CGPA- 9.28
- ***Aditya Academy***
  CBSE Class XII Boards- 90%
- ***St. Joseph's College***
  CISCE Class X Boards- 92%

Experience

- **Hazard Detection and Avoidance for Safe Lunar Landing**- The goal of hazard detection is to output a hazard map of the surface that shows where the hazards are located and where it is safe to land and develop control and simulation of Soft Landing of a Lunar Lander on the surface of the moon.
- **Vision Guided Planetary Missions by ISRO-** The ISRO funded project deals with the simulation of real-time descent of a Lunar Lander prototype using concepts of Vision-guided Control and actual lunar imagery provided by the data which ISRO obtained through the Chandrayaan 1, Chandrayaan 2, the NASA LRO and the Selene Missions.
- **Deep Learning concepts through CNN, RNN, R-CNN, Faster RCNN, SSD, YOLO etc & their applications -** Dr. Aparajita Ojha, IIIT Jabalpur
- **Fuzzy based machine learning with application in Temporal data processing** - Dr. Anil Kumar, IIRS
- **Generative Adversarial Networks for image transformation and their applications** – Dr. N. Sudha, SASTRA University Thanjavur Generative Adversarial Networks for image transformation and their applications - Dr. N. Sudha, SASTRA University Thanjavur
- **Machine learning through Google earth engine** - Shri Prasun Kumar Gupta, IIRS Machine learning through Google earth engine - Shri Prasun Kumar Gupta, IIRS
- **Methods in Machine Learning: Supervised, Unsupervised and Reinforcement Methods in Machine Learning**: Supervised, Unsupervised and Reinforcement
- **Network based Learning algorithms** – ANN to CNN/RNN

Projects

- **Disney+Hotstar Clone-** A simple web development project of Disney+Hotstar Clone using HTML, CSS and JavaScript
- **Morse Code Decipher-** A simple project used by the army to simplify the information into English alphabets through Morse Code
- **Online Exam Suite Project using JAVA-** This project aims to build an online exam suite that can be used to conduct an exam and present results in the absence of an invigilator.
- **Caption prediction**- A web app which takes in an image and predicts a caption of that particular image using CNN, RNN, NLP
- **Breast Cancer Prediction-** A classification project that predicts Breast cancer on the basis of the given dataset using machine learning, python, and ML algorithms like Logistic Regression.

Skills

- **Languages**: Java, C, C++, Python, HTML, CSS, JavaScript, MATLAB
- **Other Skills**: Data Structures, Algorithms, Machine Learning, Artificial Intelligence, Web Development, Arduino.