Dipan Banik

Data Science Enthusiast

Highly skilled, competent, and diligent individual seeking an opportunity to establish a career as a Data Analyst. Pursuing M.Sc. in Data Analytics from NAAC A++ credited Ramakrishna Mission Vivekananda Educational and Research Institution (deemed to be University). Strong willingness to exhibit my proficiency in Analytical tools, Statistics and Computing Methodologies in the professional environment.

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EDUCATION

Master of Science, Big Data Analytics
Ramakrishna Mission Vivekananda Educational and Research Institution, Belur, Kolkata

08/2020 - Present   *9.00/10.00*

Courses

- Machine Learning
- Computer Vision
- Linear Algebra
- Optimization Algorithms
- Multivariate Statistics
- Probability & Statistics

Bachelor of Science, Mathematics
Asutosh College, Calcutta University

2017 - 2019   *62% (passed with first class)*

Higher Secondary, Science Stream
Narendranth Vidyamandir, WBCHSE

2016   *85.80%*

Secondary Examination
Baranagar Ramakrishna Mission, WBBSE

2014   *82.40%*

EXPERIENCE

Summer Intern
Indian Statistical Institute, Kolkata

06/2021 - Present   *Kolkata*

under the supervision of **Dr. Ujjwal Bhattacharya**

Research topic

- Detection of Arrythmia from Echocardiograms.

Machine Learning Hackathon
Amazon ML Challenge 2021

08/2021   *Kolkata*

A team experience to handle big data in retail marketing domains. The goal was to categorise the products into different product node ids.

Achievements/Tasks

- Data wrangling using Parallel processing.
- Sentence Encoding using BERT

SKILLS

`Machine Learning` `Deep Learning` `Data wrangling`

`Data Visualization` `Python` `R-Studio` `MySQL`

`Neo4J` `MongoDB` `Computer Vision` `NLP`

PROJECTS

Left Ventricle Segmentation using EDPCNN (03/2021 - 06/2021) ↗

- under **Dr. Sujoy Kumar Biswas (Director and Principal scientist, AIMP Labs; Visiting scientist, ECSU, ISI Kolkata).**
- A new methodology (EDPCNN) to improve the performance of U-Net segmentation with a small number of training data(MRI images).
- with 10 short axis MRI heart scans, U-Net dice score : 0.63; EDPCNN Dice Score : 0.83.

Harris Corner and SIFT Implementation (03/2021 - 04/2021) ↗

- under **Br. Tamal (PhD, University at Buffalo, Buffalo, NY, USA).**
- Implementing Harris Corner and SIFT algorithm with OpenCV, numpy in python.

Sea Level Pressure Prediction using Multiple Linear Regression (end-to-end) (07/2021) ↗

- predicting Sea-Level Pressure in Austin-weather dataset (source : Kaggle) using average temperature and average dew-point with Multi-Linear Regression and then deploying using flask.
- achieved lowest MSE : 0.0162.

Hybrid Image Production (03/2021) ↗

- Creating Hybrid Images by overlaying high pass features and low pass features of an image.
- Concepts used : Fourier Transform, Image derivative.

LANGUAGES

English
Full Professional Proficiency

Bengali
Native or Bilingual Proficiency

Hindi
Professional Working Proficiency

INTERESTS

Computer Vision applications in healthcare.

AI based business solutions