

Currently pursuing M.Sc. in Big Data Analytics in RKMVERI, Belur. Disciplined and dedicated student with 2 major projects and several small projects experiences on computer vision fundamentals.

PROJECTS

Left Ventricle Segmentation using EDPCNN

March 2021 — June 2021

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 1516 short axis MRI heart scans, U-Net dice score : 0.84; EDPCNN Dice Score : 0.89
- with 10 short axis MRI heart scans, U-Net dice score : 0.63; EDPCNN Dice Score : 0.83

Harris Corner and SIFT Implementation

28 March 2021 — 18 April 2021

Br. Tamal (PhD, University at Buffalo, Buffalo, NY, USA)

- Implementing Harris Corner and SIFT algorithm with OpenCV, numpy in python.
- comparative study on both techniques using custom images.

Hybrid Image Production

2 March 2021 — 14 March 2021

Br. Tamal (PhD, University at Buffalo, Buffalo, NY, USA)

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

Sea Level Pressure Prediction using Multiple Linear Regression

20 July 2021

self-paced

- Predicting Sea-Level Pressure in Austin-weather dataset (source : Kaggle) using average temperature and average dew-point with Multi-Linear Regression.
- achieved lowest M.S.E. : 0.0162

EDUCATION

Master of Science, Big Data Analytics, RKMVERI, GPA : 9.00/10.00

August 2020 — Present

Master of Science, Mathematics, RKMVC College, State University

2019 — 2020

Bachelor of Science, Mathematics, Asutosh College, Calcutta University, passed with First Class

2017 — 2019

Higher Secondary, Science stream, WBBSE, Narendranath vidyamandir, percentage : 85.8

2016

Secondary, WBBSE, BRKMAHS, percentage : 82.4

2014

ANALYTICS SKILLS

Machine Learning



Deep Learning



Data Engineering



Data visualization



Optimization Algorithms



Data Augmentation



Computer Vision



Natural Language Processing



PROGRAMMING LANGUAGES & DATABASES

Python



R or R-Studio



SQL



MongoDB



Neo4J



PySpark



Hadoop



Flask



EXPERIENCES

- Participated in **Amazon ML Challenge, 2021**; Main focus : Feature extraction using BERT SentenceTransformers.
- Participated in **Kaggle Tabular Playground Series - 2021**; Main focus : Principal Component Analysis