

Nilotpal Sarkar

M.Sc. Student

Big Data Analytics

Ramkrishna Mission
Vivekananda Educational
Research Institute

Skills

Languages :- Python , R with Rstudio ,C

Web Development Tools :- Basic Html , Basic Css

Database Query languages :- MySql , Neo4j

Distributed Computing :- PySpark

Analytical Skills :- Micro Economics , Macro Economics ,
Trade , Econometrics

Education

Aditya Birla Vani Bharati / Higher Secondary & Secondary

2015-2017, Rishra

Ramakrishna Mission Vidyamandira / Graduation

B.Sc. Economics
2017-2020 , Belur

**Ramakrishna Mission Vivekananda Educational Research
Institute / Post-Graduation(Currently Pursuing)**

2020-2022 (expected), Belur

Projects

Bsc Projects :-

1. **Financial Advisory** :- Collected primary data on both online and offline mode for a local gift shop and tried to advise him on mainly inventory management using Linear regression , Hypothesis Testing.(July 2019- December 2019)

Msc Projects:-

1. **Visualisation Projects:-**

Life Expectancy Analysis :- Data Visualisation using Python as well as R using libraries like ggplot2 , pandas , numpy , matplotlib , seaborn.(September 2020- December 2020)

Classification using R on Bankruptcy Data :- mainly used statistical libraries and ggplot2 and plotly for visualisation purposes. (March 2021)

EDA on Indian Agriculture Dataset :- mainly used statistical libraries and ggplot2 and plotly for visualisation purposes. ([November 2020](#))

2. Machine Learning Projects :-

[*Dr. Sujoy Kumar Biswas ,Director and Principal Scientist AIMP LABS, Kolkata Joint affiliation:Visiting Scientist Electronics and Communication Sciences Unit (ECSU Indian Statistical Institute, Kolkata]*

Basic :-

Linear Regression (bivariate and multivariate), **Decision Tree** , **Random Forest** and **Adaboost** ,**Bayesian Network** using pomegranate library.
(Course Project January 2021- June 2021)

Natural Language Processing :-

- **Whatsapp chat Analysis** ([April 2021](#))
- **Recommendation Engine on MovieLens Dataset** :- mainly used collaborative Filtering ([January 2021- June 2021](#))
- **Basic Level Chatbot using chatterbot.** ([February 2021-March 2021](#))

Computer Vision Projects :-

- **Panorama Stitching , Shift Invariant Feature Detector ,Template Matching , Camera Calibration** ([Course Project January 2021- June 2021](#))
- **Covid-19 detection from Lung Radiograms** ([June 2021](#))
- **Cell segmentation using ConvNet, UNet and Transfer Learning.**
Course Project January 2021- June 2021)

Other Deep Learning Project :-

- **Regression in Deep Learning Style** ([March 2021](#))

3. Current Projects :-

- **Information Retrieval using Pre-Trained Transformers.** ([August 2021 present\) \[Supervisor: Dr. Debarshi Kumar Sanyal, Assistant Professor, School of Mathematical & Computational Sciences, IACS\]](#)

Awards

- **Gold Medalist in School during Madhyamik .**
- **Top 10 in Higher Secondary during Higher Secondary from school .**
- **Silver Medalist In Graduation .**