

# Nilotpal Sarkar

**M.Sc.**  
**Student**  
**Big Data Analytics**  
Ramkrishna Mission  
Vivekananda Educational  
Research Institute

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**Nilotpal Sarkar**  
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## 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

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## Education

**Ramakrishna Mission Vivekananda Educational Research Institute /  
Post-Graduation(Currently Pursuing)**  
2020-2022 (expected), Belur

**Ramakrishna Mission Vidyamandira / Graduation**  
B.Sc. Economics  
2017-2020 , Belur

**Aditya Birla Vani Bharati / Higher Secondary & Secondary**  
2015-2017, Rishra

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## Projects

### 1.Current Projects :-

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

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### 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)

### Bsc Projects :-

**2. 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)

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## Awards

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