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Dibyendu Das

Data Analytics Student

click here for linkedin
click here for github

Student of Data Science at Ramakrishna Mission Vivekananda Educational And Research Institute,Belurmath. During my course work I've developed a passion for Machine Learning and Deep Learning and I'm intrigued by its research prospects . I'm extremely interested in pursuing a good Internship that would consolidate future career choices .

Projects

Finance : Modelling and Prediction of Oil production and prices using relevant news data and other covariates. **Nov 2021 – Present**
Dr. Gopal Basak (Indian Statistical Instiute, Kolkata)

- This project involves collection of relevant news and other data (social media), building model, training them with a given set of oil stock market data and news data and then testing with a different set of data.

Summer Internship : Scene Text Detection Using Modulated Gabor Filters. **July 2021 - Dec 2021 Present**
Ujjwal Bhattacharya , MSc MPhil PGDCA PhD ,ISI)

- In this we are using Modulated Gabor Filters For Robust Scene Text Detection . Here We use a Modulated VGG16 for Feature Extraction .I shall use a Bezier Curve For detecting the curve Text in this project.

Time Series Analysis : Modelling daily stock returns with different GARCH models **Oct 2021**
Dr. Sudipta Das (Assistant Professor,RKMVERI,Belur)

- I modelled the log returns of four different stocks with GARCH model and then compared them on the basis of the predicted returns.

Optimization Algorithms : A comparative study of various Optimization Algorithms on House Pricing Data **Sep 2021**
Mrinmay Maharaj (PhD, Pennsylvania State University; Assistant Professor,RKMVERI,Belur.)

- In this Project I used a small mlp for predicting House Price depending on different Features. Here I used deep neural network and tried different optimization algorithms to trend the model. Then I explained the cause of success and failures of different optimization algorithms.

NLP : Application of Barlow Twins to train an encoder for NLP classification tasks using Self Supervised Learning **Sep 2021-Present**

- Train an encoder in the self-supervised environment to encode text data into a latent space for the classification tasks.

Machine Learning course project : Bengali Digit Recognition : A Hidden Markov Model Approach **March 2021 — June 2021**
Dr. Sujoy Kumar Biswas (Director and Principal scientist, AIMP Labs; Visiting scientist, ECSU, ISI Kolkata)

- The aim of this project is to implement automatic speech recognition algorithms using Hidden Markov Models and Gaussian Mixture Model .Achieved an accuracy of 78.14% .

Automata Theory : A Study on Probabilistic Machine **Jan 2020 ,May 2020**
Professor Swapan Raha ,Department of Mathematics ,Visva-Bharati

- The aim of this project is to study the relationship between Finite state automata and Probabilistic Automata.And Study the Reduction Theorem.

Education

Master of Science, Big Data Analytics, RKMVERI; GPA : 8.67/10.00 (till now) **Present**
Master of Science, Mathematics, Visva Bharati University,Santiniketan ; GPA : 8.88/10 **2018 — 2020**
Bachelor of Science, Mathematics, Acharya Prafulla Chandra College , WBSU; Percentage : 80% **2015 — 2018**

Analytics Skills

Machine Learning	●●●●○	**Deep Learning**	●●●●◐
Feature Engineering	●●●●○	**Statistics**	●●●●◐
Optimization Algorithms	●●●●○	**Data visualization**	●●●●◐
Computer Vision	●●●●◐	**Natural Language Processing**	●●●○○
Time Series	●●●●○		
Finance	●●●●○		

Programming Languages & Databases

Python	●●●●◐	**R Studio**	●●●●◐
SQL	●●●●○	**Neo4J**	●●●◐○
PySpark	●●●◐○		