KRISHNAKANTA MAITY

Pursuing MSc. Big Data Analytics at RKMVERI, Belur Math

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PROJECTS

Analysis of the impact of Covid19 outbreak on the Indian Banking System (Summer Internship Project at Department of Accounting & Finance, IIM Ranchi)

Finance, Analytics

📅 Ongoing

- This study analyses the vulnerability faced by Indian banks during COVID19 using marginal expected shortfall of stocks return as a measure. Data of FY 2020-21,2021-22 was taken from NSE and panel data regression technique was employed along with difference in difference regression. Preliminary findings show the private sector banks were more vulnerable to crises.

Diagnosis of Pneumonia from Chest X-Ray using Deep Learning

Computer Vision

📅 Feb'22 – Jun'22

- *Methodology*: Transfer learning using VGG-19 architecture
- *Dataset*: 5232 Chest X-ray images from Kaggle.
- *Findings*: Model accuracy 91%

EDA on Diet, Exercise and Fitness Data

Data Visualization, Exploratory Data Analysis

📅 Oct'21 – Dec'21

- *Dataset*: Collected through google forms.
- *Findings*: Peoples perception towards the diet, exercise and fitness were shown through visualization.

Prediction model for rating shorts stories of Sherlock Holmes

NLP, Regression

📅 Jul'20 – Sep'20

- *Methodology*: UDPipe-14 model for text annotation and sentiment analysis.
- *Dataset*: 56 short stories written by Arthur Conan Doyle from Kaggle.
- *Findings*: Ratings mainly depend on how old the story is and the exuberance of detective words.

Mathematics Behind Beauty Of Pyllotaxis Pattern

Golden Angle, Golden Ratio

📅 Jan'20 – Apr'20

- Using Shiny web-framework trying we show that the golden ratio and golden angle is associated with pyllotaxis pattern (details here).

EDUCATION

MSc in Big Data Analytics
RKMVERI, Belur Math
📅 Sept 2021 – July 2023   CGPA:8.1

MSc in Statistics
Visva-Bharati University
📅 Jul 2018 – Sep 2020   CGPA:7.05

BSc in Statistics
Midnapore College (Autonomous)
📅 Aug 2015 – Jun 2018   79.63%

Class XII
Mugberia Gangadhar High School
📅 Jun 2013 – Jun 2015   82.2%

Class X
T.U.K.B. Vidyayatan
📅 Jun 2007 – Jul 2013   86.43%

SKILLS

NLP with nltk   ML, DL using Pytorch   Data Visualization using ggplot   Scraping using Scrapy, rvest

TOOLS

R/RStudio   Python   SPSS   Tidyverse   ggplot   plotly   Tableau   Shiny   Flask   SQL   MySQL   PostgreSQL   Git   LaTeX   Pytorch   Scikit-Learn   Matplotlib   numpy

COURSEWORK

- Econometrics & Finance
- Time Series & Survival Analysis
- Optimization for Machine Learning
- Data Structures and Algorithms
- Probability and Statistics
- Computational Data Science
- Machine Learning
- Deep Learning for CV
- Natural Language Processing