KRISHNAKANTA MAITY

Pursuing MSc. Big Data Analytics at RKMVERI, Belur Math

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EXPERIENCE

Jr. Data Science Team Lead, Demand Forecasting Project
Internship at Dr. Reddy Laboratories, Hyderabad

📅 Jan'23 – Present (till Jun'23)

- Utilize data analysis and statistical modeling techniques to develop accurate demand forecasts for SKU products.
- Collaborate with cross-functional teams, including sales, marketing, and supply chain, to ensure alignment of forecasting methodologies and assumptions.
- Present findings and recommendations to senior management to inform business decisions and drive improvements in forecasting accuracy.

PROJECTS

☉ Does Bank Vulnerability Impact The Firm-Level Crash Risk During Economic Stress Period? (Summer Project at Dept. of Accounting & Finance, IIM Ranchi)
Finance, DID Regression, Panel Data

📅 Aug'22-Jan'23

- 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. Frms who took loans from vulnerable banks after the COVID-19 outbreak experienced a significantly lower crash risk compared to firms who took loans from non-vulnerable banks.

☉ Diagnosis of Pneumonia from Chest X-Ray
Computer Vision, Deep Learning

📅 Feb'22 – Jun'22

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

☉ Prediction for rating shorts stories of Sherlock Holmes
NLP, Regression, Sentiment Analysis

📅 Jul'20 – Sep'20

- *Methodology*: UDPipe-14 model for feature extraction.
- *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