

DEBANJAN MONDAL

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Education

Indian Institute of Technology Bombay

MSc. Applied Statistics and Informatics

- CPI: 7.58/10.0

India

Aug. 2018 – July 2020

Presidency University

BSc. Statistics

- INSPIRE Scholarship, CPI: 7.75/10.0

India

Aug. 2015 – May 2018

Master's Thesis Project

NMF based analysis of gene expression data | R, Python

July 2019 - July 2020

- Studied different variants of Non-Negative matrix factorization for detection of Cancer subtype
 - Use various hypothesis tests to compare the survival between the NMF Cancer subtypes
 - Use statistical, machine learning techniques to predict the survival of the cancer patients
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Experience

Developer - Technology and Innovation

Oct. 2020 – Present

Standard Chartered GBS

full-time

- Use pre-trained universal sentence encoder and cosine similarity to predict Harmonized System (HS) Code given a product variant
- Use record linkage algorithm and Jaro-Winkler similarity to match data given by user and data extracted from OCR platform
- Build a heuristic approach to predict missing role-card values in OCR platform from historical data
- Working on rule-based named entity recognition algorithm to extract relevant entities from FileNet OCR data
- [Hackathon] web scrape news data from Internet sources and build a classification model that can predict the risk an organization can get on any investment

Data Analyst

May – July 2019

Bewakoof Brands Pvt. Ltd

Internship

- Allocate Logistics Partners by solving discrete time-cost trade-off problem using Fast non-dominant sorting and crowding distance
Impact: 10-15% reduction in logistics cost on a monthly load of 4 crores is achieved
 - Conducted Time-Series cluster analysis to generate sales-profiles of inventory model-based products
Impact: 10% reduction in inventory stock is expected based on the performance on the current stock
 - Created a rule-based Recommendation System based on product-product similarity and measure its performance by Traditional A/B testing, Sequential A/B testing and Bayesian A/B testing
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Skills

Languages: Python, R, C/C++ , SQL, MongoDB

Human Languages: English, Hindi , Bengali

Developer Tools: Jupyter Notebooks, Git, VS Code, Amazon Athena