DEBANJAN MONDAL

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Education

Indian Institute of Technology Bombay India
MSc. Applied Statistics and Informatics *Aug. 2018 – July 2020*
- CPI: 7.58/10.0

Presidency University India
BSc. Statistics *Aug. 2015 – May 2018*
- INSPIRE Scholarship,CPI: 7.75/10.0

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

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 Sentiment 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

Skills

Languages: Python, R, C/C++, SQL, MongoDB
Human Languages: English, Hindi , Bengali
Developer Tools: Jupyter Notebooks, Git, VS Code, Amazon Athena