PRATIK BANKA | 18HS20046

ECONOMICS (M.Sc. 5Y)
MINOR in MATHEMATICS & COMPUTING (M.Sc. 5Y)

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2023	M.SC(5YR)	IIT Kharagpur	8.44 / 10
2018	Higher Secondary Certificate	Central Board of Secondary Education	90%
2016	Secondary School Certificate	Indian Certificate of Secondary Education	95.2%

INTERNSHIPS AND PROJECTS

Research Assistant | Mitacs Global (FT) | UNB, Canada | Project Mentor: Professor Yuri Yevdokimov   [May 2021 - Jul 2021]
To analyse the impacts of climate changes on the rising residential demand for electricity in region of New Brunswick, Canada

Work
- Scrutinized relationship linking electricity consumption & climate change, performing Literature Review of 25+ research paper
- Listed 24 factors of 4 groups, chose depth layer of 2 and performed hyperparameter tuning using Grid Search in XG Boost
- Performed **feature selection** using correlation & mutual information to finanlize **12 variables** having best performance

Impact
- Achieved an **R2 score of 0.91**, significance model at 0.01% and submitted first draft for publication in **Sage Journals**

Data Analyst | Bharti Institute of Public Policy ISB | Project Mentor: Professor Ashwini Chhatre   [Jul 2020 - Aug 2020]
To create a repository of the past 20 years of survey done by NSSO for India Data Portal, an Open Data Initiative under GOI
- Extracted tables on key indicators from **NSSO data** using groupby, pivot and melt, using concept of multiplier & applied filter for merge
- Used **tableau** for extracting 9000 table from reports of 80 mb and used python & its libraries, function to construct summarised tables
- Performed **Exploratory Data Analysis** (EDA) to remove outliers, fill missing values, find trends & relation across extracted dataset

Data Engineer | Protium, Bangalore Office   [Apr 2022 - Jun 2022]
Awarded 'Pre-placement Offer' in cognizance of the dedication displayed and effectively addressing timely requirement

Work
- Built an **inhouse Name matching** algorithm spending **250+ hours in 5 weeks** using fuzzy logic & distance method
- Estimated frequency of change in the business address of applicant, using cosine similarity & spend 80 hrs building logic

Impact
- Achieved an accuracy of **99.7%** in **PAN Name** matching and incorporated Anti-Money Laundering guidelines of RBI
- **Optimised loan-lending** method & reduced risk to an applicant by incorporating frequency of address change as variable

Data Analyst | Founders Office | Nammakada, Tradly, Singapore (WFH)   [Dec 2020 - Feb 2021]
Awarded 'Letter of Recommendation' by the Founder, Tradly, for exemplary contribution in improving overall operations
Nammakada offers a SaaS platform in localized manner, connecting general stores/vendors to local population with pickup/delivery options

Work
- Applied SQL to perform **funnel analysis**, fulfil data demand, find missing values & create 8 metrics for in-depth analysis
- Coordinated to implement &observe changes and leveraged use of google Data Studio &Tableau to **create dashboards**

Impact
- Improved the **influx** of customers by enhancing the daily operation and promoting by publishing operations articels

SKILLS AND EXPERTISE

Tools/Languages: Python | MySQL | C++ | Stata | R Studio | Tableau | Google Data Studio | Microsoft Excel (Analysis Toolpack)
Libraries/Algorithms: Visualization (matplotlib , seaborn) | Regression/Classification (scikit-learn) | NLTK (Stemming, Tokenization) | Time Series Analysis (Stata) | Data Mining (Selenium, DataMiner) | ARIMA | SARIMA |Stationary testing (ADF)
Courses: Econometrics I & II | Probability & Statistics | Regression & Time Series Model | Programming & Data Structures

AWARDS AND ACHIEVEMENTS

- Awarded **Mitacs Gloabalink Research Internship Award** worth 2600 CAD under the University of New Brunswick –Fredericton
- Maintained a CGPA of **8.8** in first 2 semesters, awarded a **Department Change** for exceptionally performance & a overall CGPA of 8.44
- Secured AIR **1269** in Kishore Vaigyanik Protsahan Yojana (KVPY) & 98.3 percentile in JEE Advanced 2018, **99.6** percentile in JEE Mains 2018
- Awarded **Sachinandan Basak Memorial Prize** as the best NSS Volunteer selected among all students for the academic year 2019-20

COMPETITION/CONFERENCE

Winner | Hackathon, Start-up Pitch | India: Turning the Tide, MIT Covid19 Challenge   [Aug 2020]

Work
- Summed up the current **problems** in **mass testing** for migrant words &designed an AI solution using breathing patterns
- Presented the **unit economics**, market entry strategy (including partnership) and implementation model of the product

Impact
- **Received funding** by IRS Officer, Mumbai for **WorkSafe** India & tested the product at Lilavati Testing center & Dharavi

Runner up | Case Study | How to Open IIT KGP   [Mar 2021 - Apr 2021]
- Drafted detailed report of **46 pages** presenting structure to be followed ranging rules, academics, timeline, budget, Covid-Team hierarchy
- Received **approval from Dean of Student Affairs** and assisted in implementing solutions for recalling of students from August 2021

POSITIONS OF RESPONSIBILITY

General Manager | LiGHT (Living In Greater Horizons Together), GYWS   [Apr 2020 - May 2021]
Led team of 12 core-members | India's largest student-run NGO | 3 national event, 1 social competition | Budget INR 30 Lakhs

Initatives
- Established & guided **2 student-run** centres Sikkim &Gaya, consisting of 20 students &provided a platform of resource
- Ideated & implemented career counselling &Teacher Training with participation of 70 mentor, 450 mentee, 15 Teacher

Management
- Managed **40** Campus Ambassadors to market for the Case Study Addhyan, National donation drive and expansion drive
- Organised social campaigns at 10 LiGHT centres directly impacting **18000+** beneficiaries and raised INR 3.5L in Yogdaan

Governor | Communique, Technology Students Gymkhana, IIT Kharagpur   [Aug 2020 - May 2021]
Part of 6 executives of Soft skill & Personality Development Society | 30 compus events, 8 collaborations | Budget of INR 75k
- Led 3-tier team of 55 students to manage budget of **INR 50k** to conduct career aiding workshops &soft skill seminars for 12000+ students
- Established contact with **12 external** organisations to conduct event, analogous to career &published 30 blogs of interview experiences