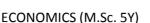


ROHIT MUNDRA | 14HS20032





Year	Degree/Exam	Institute	CGPA/Marks
2019	M.SC(5YR)	IIT Kharagpur	7.53 / 10
2013	AISSCE	CBSE	85.60%
2011	AISSE	CBSE	9.60 / 10.00

AWARDS AND ACHIEVEMENTS

- Secured First position in national level Business Case Study competition conducted as a part of Annual Management Fest 2017, IMT Ghaziabad (India)
- Secured AIR 3359 among 1356000 candidates (Percentile: 99.75) appeared in IIT-JEE'14 and Rank 99 in Rajasthan Pre-Engg. Test'14 (Percentile: 99.83)

INTERNSHIPS

Fractal Analytics | Data Science Intern | AIML Team | May - June 2018

Title: Forecasting Timeseries at Scale

- Engineered python library that generates forecast using 20+ timeseries based models to benchmark client projects with minor expert supervision
- Optimized hyper-parameter tuning, model fitting and selection techniques along with procedures for missing data, outliers, non-linear trends, seasonality
- Transcended client's best multivariate model accuracy by 15-20% and brought Integral Normalized Absolute MAE for test data in [0.05, 0.15] range
- Transformed multivariate time series variables into a regression model based features that trains LightGBM to achieve Unilever's Accuracy upto 90%

Rapido - Roppen Transportation Services | Data Analyst Team | May - June 2017

- Title: Bike Taxi Dispatching System
- Automated generation of business useful dashboard, extracting data using MongoDB queries interfaced with pymongo, pytz, collections etc. libraries
- Executed and monitored Coupon Analysis, Driver Performance Reports, Area-wise Bike Station's Cluster analysis for daily validating extracted insights
- Implemented regression model to reduce supply-demand mismatch by optimizing dispatching of fleet of bike (taxi) and allocation of orders to bike riders Formulated a six-stage clustering and timeseries modelling techniques for forecasting supply parameters for n-hour horizon across all area wise cluster

GreekTurtle Bangalore | Machine Learning Engineer | Dec 2017

Title: Intelligent Resume Recommender

- Trained Random Forest Model to select and benchmark features from Bullet Feedback, System Feedback to build a Resume Scoring Module
- Extracted various textual features from resumes to train pre-trained neural network that helps replacing weak action verbs with strong verbs
- Benchmarked using trained parameters that helps suggesting and recommending trails for improvements in sections or bullets of the inputted resume

Risk Latte Americas Inc. | Winter Internship | Dec 2016

Title: Analysis of Hyper Parameters on GA

- Implemented a solution for Travelling Salesman Problem using combinatorial optimization approach of Genetic Algorithm (GA) along with a UI in VBA
- Explored relative effectiveness of mutation, crossover, and its combinations by visualizing systematic variations in hyper-parameters while solving TSP

PROJECTS

Bachelor of Sciences Dissertation | IIT Kharagpur | Jan - April 2017

Title: Bank Competition and Financial Stability

- Carried out state-level bank failures and enforcements analysis for the commercial banking sector in USA using the recent financial crisis as the setting • Examined the trade-offs between stability of the financial system and competition within the banking industry using multi-level linear regression model
- Analysed the effect of bank competitiveness on regulatory actions taken against banks during crisis period 0f 2007-10 using logistic regression

Regression and Time Series Term Project | Dept. of Mathematics | July - Nov 2016

Title: Predicting US Recession

- Adopted an Efficient Probit-miss model to map and estimate the US recession probabilities after addition of partially observable predictor variables
- Evaluated best fit model by comparing each model's recession classifying ability using AUROC metric for an entire spectrum of evenly spaced thresholds

Master of Sciences Thesis (Part I) | IIT Kharagpur | July 2018 - Present

- Title: ICO Scam Identification and Rating
- Implementing scam rating system using Hierarchical LSTM model to predict proportional price changes of given 2251+ crypto currencies in 1 year of ICO • Adopting an unsupervised approach that trains Skip-thought Model using Glove vectors from white papers, founding team's bios, Github repositories etc.

Udacity Self-Driving Car Engineer (Term Project I) | Aug 2016

Title: Detect highway lane from a Video

• Created end-to-end pipeline for detection of road lanes in a frame taken from a roof-mounted camera using Hough transforms & Canny edge detection

COMPETITION/CONFERENCE

Inter Hall Data Analytics Competition | IIT Kharagpur | Feb 2017

Title: Ranking ATM Service Provider

- Instigated Point Pattern Analysis and Kernel estimation to statistically represent the spatial variation of a point distribution of ATM service providers
- Evaluated competitive strength of 3 ATM service providers in presence of heterogeneous environment and visualized the results using QGIS Software
- Utilized Competitive Score from Point Pattern Analysis to calculate business potential and revenue generation for all given zip-codes across California

Kaggle Competition | IIT Kharagpur | May 2018

Title: House Prices Prediction

- Engineered 80+ variables into 433 features after processing for outliers, encoding variables, imputing missing values and removing other inconsistencies
- Predicted sales price for each house using Lasso Regression, XGBoost etc. Visualized XGBoost feature importance and its dependence using Shap library
- Secured position in top 13% out of 4764 candidates with 0.1178 RMSE between the log of the predicted value and the log of the observed sales price

COURSEWORK INFORMATION

Deep Learning Specialization (Coursera, Andrew Ng) | Machine Learning (Coursera, Stanford) | Probability and Statistics | Computational Statistics | Design and Analysis of Algorithm | Programming and Data Structures | Econometric Analysis | Operation Research | Regression and Time Series

SKILLS AND EXPERTISE

Languages and Tools: C, C++, Python (PyFlux, Hyperopt, PyMongo, NLTK, Sci-kit, Shap Numpy, Pandas, OpenCV), R, MongoDB, Matlab, HTML, Excel

POSITIONS OF RESPONSIBILITY

Student Department Representative | Career Development Centre | IIT Kharagpur | Nov 2016 - April 2017

• Rendered systematic supervision to 1200+ students and assistance to 100+ company's officials to expedite their corporate interactions during placements

Vice-Captain | Inter Hall Case Study | General Championship | IIT Kharagpur | July 2016 - April 2017

• Steered and represented 20+ membered Gold winning team of Inter-hall Case Study held during General Championship 2015-16 and 2016-17

Secretary | Communique | Technology Students' Gymkhana | IIT Kharagpur | July 2015 - April 2016

• Streamlined English Learning Program for 600+ freshmen and conducted regular Placement Drives, Internship Seminars etc. for 500+ final year students