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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	IIT, Guwahati	7.72 (Current)	2019 - Present
Senior Secondary	CBSE Board	93.8%	2019
Secondary	CBSE Board	10.0	2017

Projects

• Twitter Sentiment Analysis

F-1 Score: 0.605 — Natural Language processing

Cithuh Link

• On a data-set of tweets made by real people, predicted the sentiment by identifying deterministic hashtags and key tokens while applying **Decision Tree Classifiers** and **Neural Network** for prediction.

• Desktop News Notifier

Daily Utility Project

 $Github\ Link$

- Developed module for displaying latest business news as desktop notification.
- Used BeautifulSoup for parsing news content , Pillow to convert images to icons and PyNotifier for producing notifications of news articles.

• Employee Attrition in Recession

AUC-ROC Score: 0.83 - Categorical Data Analysis

Github Link

- Estimated the probability of employees leaving the firm based on employee data about his/her past history.
- Used several Machine Learning models, a few being: XGBoost, AdaBoost, LogisticRegression, Support Vector Machine and MLPClassifier.
- Used **Data Visualization**, Data-preprocessing, **Feature Engineering**, Feature Selection, Feature Scaling and Hyperparameter Tuning to fine tune the model.

• Portfolio Optimizer

Portfolio Return: 26%

Github Link

- o On Portfolio of 5 stocks, Optimised weights based on Minimun Variance, Maximum Return, Maximum Sharpe Ratio and Maximum Treynor Ratio using 2 yrs historical data.
- Tested results of above portfolio for 1 year best return from Sharpe Ratio Portfolio: 26%
- o Used Numpy, Pandas, Nsepy and Matplotlib to visualize Markowitz Bullet of simulated portfolios

Technical Skills

- Programming Languages:: C,C++, Python,R
- ML Libaries:: : NumPy, Pandas, Scikit-Learn, Matplotlib, Keras, Tensorflow*
- Visualizations : Matplotlib, Seaborn, Plotly, Tableau*
- Operating System :: Windows, Linux*, MacOS*
- Web Development: Django*, HTML, CSS, Javascript
- Database Management :: MySQL
- Miscellaneous: Web Scrapping, Statistics, Quant Finance, Portfolio Management

* Elementary proficiency

Key courses taken

- Computer Science: : Data Structures Algorithms(Theory and Lab), Computer Organization and Architecture, Digital Design, Database Management Systems
- Mathematics: : Probability Random Processes, Linear Algebra, Advanced Calculus, Discrete Mathematics, Number Theory Algebra, Real Analysis and Complex Analysis

Achievements

- Joint Entrance Examination Advance 2019 : Secured All India Rank 763 among 2 lakh candidates appearing for the test
- Joint Entrance Examination Mains 2019: Secured All India Rank 99.94th Percentile among 0.94 million candidates appearing for the test
- Kishore Vaigyanik Protsahan Yojana (KVPY SA) 2017:: Awarded KVPY Fellowship by securing AIR 31
- National Talent Search Examination 2017:: Cleared both stages of national level exam organised by NCERT from Delhi region.
- Creative Shock 2020: A Global Social Business Case Study Competition by ISM University, secured 115th position worldwide among 2000+ members across 100+ countries