RANJITHA KORRAPATI

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Education and Coursework

Rutgers University – State University of New Jersey **Sep' 2018 – May 2020**

Master of Science Computer Science (Machine Learning & Data Science Track)

Coursework: Intro to Data Structures and Algorithms, Intro to Artificial Intelligence, Machine Learning, Data Base Systems for Data Science, Probability and Statistics, Massive Data Mining, Data Science for Smart Cities, Computer Vision, Topics of Computer Science in Biomedicine

SRM Institute of Science and Technology - Chennai, India **Jun' 2014 – May' 2018**

Bachelor of Technology in Computer Science

Coursework: Operating Systems, Compilers and Automata theory, Advance Java, Data Mining, Soft Computing, Statistics

Skills Sets

Languages and frameworks: Python, R, Html, CSS, JavaScript, C++, Java, Materialize CSS, Node.js, Scala
Databases/Softwares: Relational DB: Microsoft SQL Server, Oracle, MySQL, NoSQL : MongoDB, Impala SQL, Graph : Neo4j
Python Libs: NumPy, Pandas, scikit-learn, PySpark, Pytorch, MLlib, Keras, Tensorflow, fastparquet, dask, network, nltk
Visualization tools: ploty.js, Dash, Matplotlib, seaborn, Highcharts, Tableau
Cloud and other tools: Amazon Web Services EC2, S3, Redshift, GCP, RDS, Git, MS Office, Hadoop, REST API, Flask, , Hive, Docker

Experience

Atos, Digital transformation, New York **Jul' 2020 – Present**

Data Scientist

- Perform predictive analysis to guage employee device performance and IT consumption costs of Fortune 500 pharma client.
- Drug adherence prediction in the client's patients while working closely with business partners and internal product team.
- Worked on ETL processes to migrate data from client's data lake using big data frameworks – Apache Impala queries.

Global Foundries, Integrated Manufacturing and Information Technology, Malta, New York **Jul' 2019 – Aug' 2019**

Machine Learning Developer Intern (Semi-Conductors)

- Prediction of faulty silicon wafers using supervised learning algorithms like logistic regression using MLlib.
- Built a flask application to visualize silicon wafers and find defects during lithography and deployed it using Docker.

State Bank of India, Advanced Analytics Department, Mumbai, India **Nov' 2017 – Jan' 2018**

Data Science Intern

- Conducted correlation analysis to understand why women can't access financial services as good as men (python)
- Presented the paper titled "Role of Gender Bias and Household Amenities in Impeding Access to Financial Services" at International Conference on Advanced Data Analytics and Business Intelligence at IIM Ahmedabad, India

C-Edge Technologies – Mumbai, India **Jun' 2016 - Jul' 2016**

Full Stack Developer Intern

- Developed a website using HTML, CSS, JavaScript, jQuery and Materialize- CSS to execute SQL and noSQL commands

Academic Projects and Research

Where is the Next LinkNYC? – An interactive dashboard for wifi kiosk placement in NYC

- Greedy approach and clustering techniques to find locations that can replace NYC payphone booths with wifi kiosks.
- Used python, dash, plotly.js and javascript to build an interactive dashboard to display stats of potential locations.

Customer Segmenation Of Online Retailer Store Using Unsupervised Learning

- Clustering customers based on Recency, Frequency and monetary value using k-means clustering in python.

Credit Card Fraud Prediction

- Credit card fraud prediction using XGboost, Random forests, LDA. Used t-SNE for dimensionality reduction.

PCA Imputation Of Missing Values In A Political Questionnaire Data set

- Singular Value Decomposition of non-missing values & projecting to higher dimensional space to find missing data.
- Tools: python, sklearn, TensorFlow.

Tennis Players Ranking System using Google Page Rank Algorithm

- Personal project: Ranking of tennis players using Google Page Rank Algorithm in python and weights were selected to reflect factors like age, form, reliability of matches to ensure fair judgment to all the players.

Implemented Machine Learning And Deep Learning Algorithms From Scratch

- Built Decision Tree Algorithms (ID3, CART), Perceptron Learning Algorithm, Linear Regression –Regularization Techniques (Ridge and Lasso) and Support Vector Machines from scratch in python without using packages.

Research Project: Suicide analysis using supervised learning

- Analyzed Reddit's survey data and built logistic regression (sklearn - python) model to predict suicidal behavior.
- Published papers 'Survey paper on suicide analysis' and 'Analysis of survey data to predict sucidality' in International Journal of Pure and Applied Mathematics