RANJITHA KORRAPATI

New Brunswick, NJ – 08901m
+1 (585) 503 -1347 | ranjitha.korrapati@gmail.com| Website | LinkedIn | Medium Blog

Education and Coursework

Rutgers University – State University of New Jersey **Expected – May' 2020**

Master of Science Computer Science (Machine Learning & Data Science Track)
GRE: 321/340 (Quantitative score 168/170) | TOEFL: 113/120
Coursework: Introduction to Data Structures and Algorithms, Introduction to Artificial Intelligence, Mathematics for Data Science (Linear Algebra, Probability and Statistics), Machine Learning, Data Base Systems For Data Science

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

Bachelor of Technology in Computer Science | GPA: 9.42/10
Coursework: Data Structures and Algorithms, Genetic Algorithms and Machine Learning, Artificial Intelligence, Computer Networks, Cloud Computing, Operating Systems, Database Management Systems, Software Engineering, Mathematics

Skills Set

Programming Languages: Python, R, SQL, C++, Basics of Html, CSS, JavaScript, Java.
Tools: Pandas, NumPy, Sk-Learn, Flask, NLTK, Jupyter Notebook, SQL Server, Materialize CSS, MS Office, AWS EC2, S3, RDS , Hadoop , Keras, Tensorflow, dask

Academic Projects and Research

PCA Imputation of missing values in huge Questionnaire data set **June' 2019**
- Singular Value Decomposition of non-missing values & projecting to higher dimensional space to find missing values.
- Tools: python, sklearn, tensorflow.

Tennis Players Ranking System using Page Rank Algorithm **April' 2019 – May' 2019**
- Ranking of tennis players using Google Page Rank Algorithm in python.
- Weights were selected to reflect factors like age, form, reliability of matches to ensure fair judgment to all the player

Jokes Recommendation System **Feb' 2019 – March' 2019**
- Recommending jokes to users using user-user collaborative filtering.

Implemented Machine Learning algorithms from scratch **Jan' 2019-Present**
- 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.

Friend Recommendation System – Hadoop MapReduce **Jan'2019 – Feb 2019'**
- Used Hadoop Map Reduce to recommend friends based on mutual friends (Social Media).

Research Project: Suicide analysis using supervised learning **Jan' 2018 - May' 2018**
- Analyzed Reddit's survey data and built logistic regression(sklearn) model to predict suicidal behavior using python.
- Published papers 'Survey paper on suicide analysis' and 'Analysis of survey data to predict sucidality' in International Journal of Pure and Applied Mathematics

Project: Hotel review sentiment analysis **May' 2017 - Jun' 2017**
- Performed sentimental analysis on hotel reviews collected by web scraping using selenium to find polarity of reviews.
- Performed stemming, stop word removal, tokenization & applied various ML models like SVM for classification.

Experience

Global Foundries, Integrated Manufacturing and Information Technology (Semiconductors) **Jul' 2019 – Aug' 2019**
Machine Learning Developer Intern
- Extracted data from mdl files using python (binary, hex and text) into parquet files to plot silicon wafer maps.
- Built a flask application to give raw and higher order wafer maps for technicians in FAB to rework on faulty wafers.
- Used those wafer maps to predict the health of a wafer (keras) .

State Bank of India, Advanced Analytics Department **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 IIM Ahmedabad, India

C-Edge Technologies – Web Development **Jun' 2016 - July' 2016**
- Developed a complete website using HTML, CSS, jQuery and Materialize CSS .