RANJITHA KORRAPATI

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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, SQL, C++, Basics of Html, CSS, JavaScript and Java
Tools: Pandas, NumPy, Sk-Learn, Flask, NLTK, Jupyter Notebook, SQL Server Materialize CSS, MS Office, AWS EC2, S3 and RDS

Academic Projects and Research

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 players.

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.

Research Project: Suicide analysis using supervised learning   Jan' 2018 - May' 2018
- Conducted extensive research, analyzed Reddit's survey data and built logistic regression model to predict suicidal behavior in people using Maximum Likelihood Estimation.
- Performed data cleaning, exploratory data analysis, recursive feature elimination and visualization in python using sklearn, pandas, NumPy and various other libraries.
- 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 .
- Performed stemming, stop word removal, tokenization on reviews and applied SVM and logistic regression to classify the polarity of the hotel reviews using pandas, sklearn, NumPy, nltk and various python libraries.

Experience

Global Foundries, Integrated Manufacturing and Information Technology   Jul' 2019 – Aug' 2019
Machine Learning Developer Intern
- Extracted useful levelling data from mdl files using python (binary, hex and text) into parquet files to plot wafer maps to check any hot spots in silicon wafers after deposit of photo resist.
- 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.

State Bank of India, Advanced Analytics Department   Nov' 2017 – Jan' 2018
Data Science Intern
- Conducted root-cause analyses using python on various socio-economic factors responsible for financial services not reaching women in India. (Correlation Analysis)
- 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   Jun' 2016 - July' 2016
Web Development Intern

- Developed a complete website using HTML, CSS, jQuery and Materialize CSS that could execute SQL queries and connected front end webpages with AWS MySQL instance and Redshift cluster.