

STACY LEE

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| Education | University of Illinois at Urbana-Champaign M.S. in Statistics Analytics Concentration GPA: 3.62/4.00 B.S. in Civil and Environmental Engineering Systems Concentration Minor in Mathematical Statistics | Dec 2018 May 2017 |
| Languages | Proficient: Python, R, SQL Python Libraries: Pandas, Sklearn, NumPy, Re, Seaborn, Keras | Familiar: C++, C, MATLAB, HTML/CSS, AWK, SAS R Libraries: Tidyverse |
| Tools | AWS EC2, GCP, Azure, UNIX/Bash, Tableau, Git | |
| Experience | Ameren Champaign, IL Data Science Innovation Intern Analytics Team Jan 2018 - Dec 2018 <ul style="list-style-type: none">○ Led a 5-person team for the project in identifying individuals out of 1.4 million customers with the highest likelihood of enrolling in two different energy savings programs administered by Elevate Energy using Experian demographic dataset with mixed data types<ul style="list-style-type: none">- Performed exploratory analysis, data cleaning & feature engineering for model production- Implemented random forest for 1% imbalanced class ratio and improved recall by 90%- Presented insights on customer trends through storytelling to stakeholders- Mentored teammates on machine learning, statistics, and programming in Python or R○ Assisted with development of prediction model to classify adoption of solar energy for distribution planning○ Brainstormed classification methods to replace the traditional utility pole assessment process with the goal of implementing a passive and cost-effective system<ul style="list-style-type: none">- Wrote Python scripts to reformat data collected from sensors to facilitate analytics- Created different data visuals to find a clear classification threshold based on sparse data RailTEC, University of Illinois at Urbana-Champaign Champaign, IL Research Assistant Train Safety Analytics Group Jan 2016 - May 2017 <ul style="list-style-type: none">○ Developed a spatial visual that predicted train derailment severity based on train speed○ Researched and acquired open datasets to create a kernel density map in ArcGIS○ Applied regression methods on data regarding train casualties using R programming language○ Debugged and implemented data integration for four datasets (over 3 million) in SQL queries | |
| Projects | Software Engineering Algorithm Implementation From Scratch <ul style="list-style-type: none">○ CS 412: Data Warehousing and Data Mining, Fall 2017<ul style="list-style-type: none">- Random Forest Algorithm in Python (Largest dataset: 8,000 train; 4,000 test)<ul style="list-style-type: none">· Used gini index and majority vote with best test accuracy of 0.96- Frequent Itemset Mining Algorithm in Python<ul style="list-style-type: none">· Used apriori algorithm to output outlier resilient itemsets | |
| Involvement | Civil Engineering Undergraduate Advisory Board Champaign, IL President 2016 - 2017 <ul style="list-style-type: none">○ Established the first undergraduate advisory board in the civil engineering department○ Organized social events of ~50 attendees to increase student and professor interactions | |
| Awards | Data Science: Top 10 Team with Best MSE Score - Synchrony Financial Datathon 2018 Top 20% (Round 1); Top 50% (Round 2) - TEXATA 2017 Energy: Finalist Team - U.S. Dept. of Energy's Race-To-Zero Sustainable Design 2015 Entrepreneurial: Semi-Finalist Team - Cozad New Venture Competition 2014 | |