

STACY LEE

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Languages	Proficient: Python, R, SQL	Basic: Scala, HTML5/CSS/JavaScript, SAS
Libraries	Python: NumPy, Pandas, Sklearn, SciPy, StatsModels, Matplotlib	R: Tidyverse, Caret
Data Tools	Hive/Hadoop, Google BigQuery, Tableau, Trifacta, Azure, AWS, Spark, UNIX, Git	
Education	University of Illinois at Urbana-Champaign	
	M.S. in Statistics Analytics Concentration	Dec 2018
	<i>Relevant Courses: Machine Learning, Computational Statistics, Data Mining</i>	
	B.S. in Civil Engineering Systems Engineering Concentration	May 2017
Experience	Carat, a Dentsu Company New York, NY	
	Analyst, Data Analytics Data Science Impact Team	Sept 2019 - Present
	<ul style="list-style-type: none">Lead the strategy for creating a new composite scoring metric using principal component analysis, selecting test & control market pairs to measure advertising impact, & creating cost estimates to generate baselines of significant sample sizes for Fortune 100 clientsImplement additive time series model using over 50 variables for causal impact analysis with results that received positive client feedback & became an official team productOversee end-to-end research & development of XGBoost model for production forecastingImprove online ad performance by over 20% through optimal frequency & creative analysesDevelop automation code & data flows using REST APIs for presenting daily or weekly reportsCreate data visuals to investigate discrepancies and gain deeper insights on media trendsCollaborate across teams to ensure proper tag taxonomy for Facebook & Twitter adsLaunch first monthly data science learning program within team to encourage growth	
	Ameren Champaign, IL	
	Data Science Innovation Intern Innovation Team	Jan 2018 - Dec 2018
	<ul style="list-style-type: none">Led a 5-person team project for identifying individuals out of 1.4 million customers with high propensities of enrolling & saving in energy savings programs using demographic data of 150+ features to create a target list of recipients who will receive the promotional bill insert<ul style="list-style-type: none">Built custom tools for exploratory data analysis to gain insights & formulate a data strategyImplemented random forest for 1% imbalanced class ratio and improved recall by 90%Applied Bayesian statistics with logistic regression for targeted marketing deliverableSurfaced and presented insights on customer trends through storytelling to stakeholdersResearched methods to replace the traditional utility pole health assessment process<ul style="list-style-type: none">Converted & reformatted raw data collected from sensors to facilitate analyticsUtilized clustering methods to find patterns in pole health based on movementAssisted with recommender system to estimate solar PV adoption for distribution planningMentored team members on machine learning, statistics, and programming in Python or RCreated & documented code to extract large datasets from AWS S3 for team efficiency	
Competitions	Synchrony Financial Datathon Top 5 of 25 Teams with Best MSE Score	April 2018
	<ul style="list-style-type: none">Researched the impact of federal interest rates on home improvement spendingImplemented Elastic Net with Five-Fold Cross Validation for the final submission	
Projects	Machine Learning & Computational Statistics Projects [stacy-lee.github.io/ds/projects.html]	
	<ul style="list-style-type: none">Monte Carlo method to identify Weibull PDF in Traffic Volume Counts 2012 NYC Open DataTime series with fourier seasonality on Walmart sales data achieved WMAE less than 1630Logistic regression for movie review analysis with NLP achieved AUC greater than 0.95	
	Algorithms (Written From Scratch) Random Forest, k-NN, Lasso Regression, Apriori	