

# STACY LEE

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Summary	Data science and analytics professional with 4+ years of experience applying data science methods to drive decision-making and building data pipelines for product & marketing analytics.		
Languages	Proficient: <b>Python, R, SQL</b>	Basic: <b>Scala, HTML/CSS/JavaScript, C++</b>	
Data Tools	<b>Tableau, Power BI, AWS, Spark, Airflow, BigQuery, Hive, Azure, dbt, Jenkins, Git</b>		
Education	University of Illinois at Urbana-Champaign <b>M.S. in Statistics</b> <i>Data Science &amp; Analytics Concentration</i> <i>Relevant Courses: Machine Learning, Computational Statistics, Data Mining</i> <b>B.S. in Civil &amp; Environmental Engineering</b> <i>Transportation &amp; Systems Concentration</i>		
Experience	<b>Nielsen</b>	New York, NY	
	<b>Senior Data Science Analyst</b> <i>Nielsen Marketing Cloud Team</i>	June 2021 - Jan 2023	
	<ul style="list-style-type: none"><li>○ Led the model evaluation &amp; deployment of graph product features built on terabytes of data</li><li>○ Created &amp; evaluated model iterations of graph product produced by clustering algorithm</li><li>○ Built automated dashboards to monitor audience segment models &amp; gain weekly insights</li><li>○ Developed KPI metrics for monitoring anomalies and discrepancies in data pipeline</li><li>○ Debugged issues in modeling pipeline that removed data leakage &amp; reduced query runtime</li><li>○ Presented &amp; documented model evaluation methodology &amp; results for reproducibility</li><li>○ Mentored &amp; reviewed the Python code &amp; queries of less experienced colleagues</li></ul>		
	<b>Dentsu</b>	New York, NY	
	<b>Data Science Analyst</b> <i>Marketing Effectiveness Team</i>	Sept 2019 - June 2021	
	<ul style="list-style-type: none"><li>○ Led the strategy for creating a new composite scoring metric using principal component analysis, selecting test &amp; control market pairs to measure advertising impact, &amp; creating cost estimates to project sample size baselines for Fortune 100 financial &amp; retail campaigns</li><li>○ Built additive time series model using over 50 variables for causal impact analysis to estimate incremental lift from media campaigns with results that received positive client feedback</li><li>○ Implemented feature engineering in predictive models improving accuracy over 10%</li><li>○ Oversaw end-to-end research &amp; development of XGBoost model for marketing mix modeling</li><li>○ Improved online ad performance by over 20% through optimal frequency &amp; A/B testing</li><li>○ Automated ETL data pipeline from multiple sources using APIs for daily or weekly reports</li><li>○ Created data visuals to investigate discrepancies &amp; gain insights for storytelling</li><li>○ Collaborated across teams to ensure proper website tags for tracking in Adobe Analytics</li></ul>		
	<b>Ameren</b>	Champaign, IL	
	<b>Data Science Innovation Intern</b> <i>Innovation Team</i>	Jan 2018 - Dec 2018	
	<ul style="list-style-type: none"><li>○ Led a 5-person team project for identifying individuals out of 1.4 million customers with high propensities of enrolling &amp; 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"><li>- Applied Bayesian statistics with logistic regression for targeted marketing deliverables</li><li>- Implemented random forest for 1% imbalanced class ratio &amp; improved recall over 50%</li><li>- Created custom tools for exploratory data analysis to gain insights &amp; form a data strategy</li></ul></li><li>○ Utilized clustering methods to find patterns in pole health based on movement from sensors</li></ul>		
	Projects	<b>Machine Learning &amp; Computational Statistics Projects</b> [stacy-lee.github.io/ds/projects.html] <ul style="list-style-type: none"><li>○ Logistic regression for movie review analysis with NLP achieved AUC greater than 0.95</li><li>○ Monte Carlo simulation to identify Weibull PDF in Traffic Volume Counts 2012 NYC Open Data</li></ul>	
<b>Algorithms</b> (Written From Scratch) Random Forest, k-NN, Lasso Regression, Apriori			