

STACY LEE

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Summary	Data science and engineering professional with 4+ years of experience building predictive models & automated data pipelines for dashboards and applying data science to drive decision-making.		
Languages	Proficient: Python, R, SQL	Basic: Scala, HTML/CSS/JavaScript, C++	
Data Tools	AWS, Hive, Spark, BigQuery, Power BI, Tableau, Azure, Databricks, dbt, Airflow, Jenkins, Git		
Education	University of Illinois at Urbana-Champaign M.S. in Statistics <i>Data Science & Analytics Concentration</i> <i>Relevant Courses: Machine Learning, Computational Statistics, Data Mining</i> B.S. in Civil & Environmental Engineering <i>Transportation & Systems Concentration</i>		
Experience	<div><div>Nielsen Senior Data Science Analyst <i>Nielsen Marketing Cloud Team</i> ○ Led the model evaluation & deployment of graph product features built on terabytes of data ○ Created & evaluated varying model iterations of graph product using community detection ○ Built automated dashboards to monitor segmentation models & gain weekly insights ○ Scoped & planned KPI metrics for monitoring anomalies and discrepancies in data pipeline ○ Debugged issues in modeling pipeline that removed data leakage & reduced query runtime ○ Presented & documented model evaluation methodology & results for reproducibility ○ Mentored & reviewed the Python code & queries of less experienced colleagues</div><div>Dentsu Data Scientist, Analytics <i>Marketing Effectiveness Team</i> ○ Led 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 project sample size baselines for Fortune 100 financial & retail clients ○ 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 ○ Implemented feature engineering in predictive models improving accuracy over 10% ○ Oversaw end-to-end research & development of XGBoost model for marketing mix modeling ○ Improved online ad performance by over 20% through optimal frequency & A/B testing ○ Automated ETL data pipeline from multiple sources using APIs for daily or weekly reports ○ Created data visuals to investigate discrepancies & gain insights for storytelling ○ Collaborated across teams to ensure proper website tags for tracking in Adobe Analytics</div><div>Ameren Data Science Innovation Intern <i>Innovation Team</i> ○ 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 - Applied Bayesian statistics with logistic regression for targeted marketing deliverables - Implemented random forest for 1% imbalanced class ratio & improved recall over 50% - Created custom tools for exploratory data analysis to gain insights & form a data strategy ○ Utilized clustering methods to find patterns in pole health based on movement from sensors</div></div>		
Projects	Machine Learning & Computational Statistics Projects [stacy-lee.github.io/ds/projects.html] ○ Logistic regression for movie review analysis with NLP achieved AUC greater than 0.95 ○ Monte Carlo simulation to identify Weibull PDF in Traffic Volume Counts 2012 NYC Open Data Algorithms (Written From Scratch) Random Forest, k-NN, Lasso Regression, Apriori		