

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 analytics & machine learning. | | |
| Languages | Proficient: Python, R, SQL | Basic: Scala, HTML/CSS/JavaScript, C++ | |
| Data Tools | AWS, BigQuery, Tableau, Superset, Spark, Airflow, Docker, Hive, Jenkins, Git | | |
| Experience | Nielsen | New York, NY | |
| | Senior Data Science Analyst Nielsen Marketing Cloud Team | June 2021 - Jan 2023 | |
| | <ul style="list-style-type: none">○ Led the graph model evaluation & deployment of features built on terabytes of data○ Created versions of graph model built on clustering algorithm via hyperparameter tuning○ Built automated dashboards to monitor audience segment models & gain weekly insights○ Developed KPI metrics for monitoring anomalies and discrepancies in data pipeline○ Debugged issues in ML Ops 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 | | |
| | Dentsu | New York, NY | |
| | Data Science Analyst Marketing Effectiveness Team | Sept 2019 - June 2021 | |
| | <ul style="list-style-type: none">○ 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 campaigns○ 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 | | |
| | 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">- 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 exploratory analysis methods to find patterns in pole health based on sensor data | | |
| | Education | University of Illinois at Urbana-Champaign | |
| | M.S. in Statistics Data Science & Analytics Concentration | | |
| | Relevant Courses: Computational Statistics, Data Mining, Machine Learning | | |
| | B.S. in Civil & Environmental Engineering Transportation & Systems Concentration | | |
| Projects | Machine Learning & Computational Statistics Projects [stacy-lee.github.io/ds/projects.html] | | |
| | <ul style="list-style-type: none">○ Times series forecast of Amazon stock closing price using LSTM RNN on Yahoo Finance data○ 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 | | |