**Anthony Lane**

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**Professional Work Experience**

**AT&T September 2018 - present**

*Data Science Service and Learning Lab*

* Visualized KPI data for cell tower construction using ggplot in R to diagnose delays in construction and issues in progress as a voluntary project for other national employees
* Collaboratively implemented regression and classification models and machine learning algorithms for company projects and datasets using R in RCloud IDE as part of the intramural Data Science Learning Lab
* Used ggplot2 for data visualizations to help communicate insights in presentation in RStudio

**AT&T July 2018 - present**

*Business & Technology Operations Support Specialist*

* Currently building multiple regression and logistic regression models using R to predict potential trouble sites in Manhattan to save operational expenses and time
* Coordinated logistics of cellular tower construction and tracked construction KPIs
* Used MS Excel, MS Access and R, and wrote SQL scripts to clean and join tables for KPI trackers

**Data Analytics - Academic Experience**

**Predictive Modeling Research Project October 2016 – December 2017**

*Vanderbilt University*

* Evaluated the accuracy of a psychiatric diagnosis tool for adolescent patients by building prediction models with support vector machines, analyzing data from emeritus faculty mentor’s recent published article
* Introduced predictive analytics as innovative method of research in Psychiatry
* Submitted a rough draft of paper to tailor results and background information to non-technical audience

**Department of Transportation Car Accident Research Project Aug 2015 – Oct 2017**

*Vanderbilt University*

* Implemented regularization techniques (Ridge, LASSO), stepwise regression, dimension reduction (PCA, Partial Least Squares), and random forest algorithms on a DoT dataset with more than 44 variables to identify key factors in car crash severity for individual states using R
* Cleaned and analyzed large DoT dataset of more than 44 variables
* Visualized data and insights using R, and communicated insights to non-technical audience via presentations and PowerPoint.

**Research Assistant May 2015 – May 2017**

*Vanderbilt University Medical Center*

* Acknowledged in paper for contributions in Journal of Forensic Science paper
* Developed psychiatric database with emeritus faculty mentor
* Critiqued journal article’s statistical methods

**Technical Skills**

**Software & Programming Languages:** R (3 years), Python (1 year), SAS, MS Excel, SQL (1.5 years), Git Bash (1 year), Powershell

**R & Statistics:** Object-oriented programming, Graphical data visualizations, Data cleaning, text file processing, regression, classification, support vector machines, random forests, boosting, dimension reduction, ridge, lasso, cluster analysis, CART