**RANDALL S. TAYLOR**

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· GitHub: www.github.com/randallscott25 ·

· Published visualizations: https://rpubs.com/randallscott25 ·

· LinkedIn: https://www.linkedin.com/in/randall-taylor-ab1794163/ ·

**education**

**Syracuse University** Syracuse, NY

*Master of Science, Applied Data Science, GPA 3.6 April 2019 - September 2020*

**Wilmington University** New Castle, DE

*Bachelor of Science, Computer and Network Security, GPA 3.4 August 2015 - December 2018*

**experience**

**National September 11 Memorial & Museum** New York, NY

*IT Data Analyst/Project Manager December 2015 – June 2020*

* + Managed Audio Guide Project, generating revenue of 2 million dollars annually.
  + Designed statistical methods to perform quality control of company products.
  + Analyzed internal processes to identify opportunities for improvement, as well as devised and implemented new innovative work-flow solutions with structures.
  + Built database schema related to current projects to maintain workflow function within SQL.
  + Utilized Python, R, and Tableau to provide data visualizations to report on ongoing IT projects.

**IMM** Linden, NJ

*Jr. Data Analyst August 2011 – December 2015*

* + Configured financial institutions’ server environments for IMM eSignature applications, including check and receipt solutions within SQL database.
  + Designed, created, and implemented database systems based on end user requirements.
  + Developed database schemas, tables, and dictionaries via SQL queries.
  + Extracted, transformed, and loaded data, ensuring normalization.

**Technical**

**Machine Learning**: Classification, Regression, Feature Engineering, Data Scraping (see projects), manipulation and visualization.

**Statistics**: Regression, Confidence intervals, Bayesian, Decision Trees, Random Forest, Clustering

**CODING: *Python*** (scikit-learn, nltk, NumPy, SciPy, Pandas, Matplotlib, Beautiful Soup, PyMongo, Plotly), ***Tableau***, GitHub, SQL, R (intermediate), Linux, Hadoop, PowerShell, SSMS, and PostgreSQL.

**Projects**

* **CDC: Average Life Expectancy** Community Health Status Indicators (CHSI) project investigated multivariate linear regression to predict Average Life Expectancies, given health status indicators, “at risk.” (see GitHub, Rpubs) (R code)
* **Migration of the Indo-European Language Family** utilizing the geographic and language data at the World Atlas of Languages, conducted web scrapes of json data, interactive geospatial analysis. Anthropological data analysis (see GitHub). (Python)
* **COVID-19 Study** final study at Syracuse University’s Master of Applied Data Science program analyzing the Covid-19 CDC Data, New York Times Covid -19 interactive. Goal: try to determine predictability of catching the virus, given what county you reside in, within the United States. Utilizing K-means clustering and Multivariate Linear Regression / Logistic Regression. (on Going - GitHub) (Python)