Orrin S. Wheeler

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Professional within the Data Science community with experience implementing models for various business needs. I enjoy working to spread better data practices and promoting awareness of the data science toolkit across organizational levels. Master's in Information Technology and Management with a Business Analytics concentration and Bachelor's in Mathematics. Professional Data Scientist and Machine Learning Engineer.

TECHNICAL SKILL SET

Machine Learning	Linear/Logistic Regression, CART models (Decision Trees, Random Forest, XGBoost, ect.), Neural Networks, Feature Engineering, Dimensionality Reduction, Supervised and Unsupervised Learning, K-means and Hierarchical Clustering
Dashboarding	Tableau, ggplot, ShinyR, Rmarkdown
Software Engineering	R, Python, Shiny Apps, Agile Methodologies
Data Wrangling	Oracle, Hadoop, SQL Server, Data Mining/Cleansing, Web Scraping, NLP
Primary Packages/Libraries	*R:* Tidyverse, Plyr, Dplyr, Caret, Reticulate *Python:* Numpy, Pandas, Scikit-Learn, Seaborn, Tensorflow, NLTK, Shap

PROFESSIONAL EXPERIENCE

Accrue Partners   Winston-Salem, NC
Data Science Contractor   *July 2019 - Present*

- Work with clients to determine project scope, estimate timelines, and define appropriate project checkpoints with project stakeholders and project managers

- Provide machine learning expertise to senior leadership in analyzing potential predictive analytics projects

- Wrangle data from disparate data sources for use in predictive and prescriptive analytics projects

- Build a variety of machine learning models to meet client project needs

- Determine project appropriate KPI's and develop ongoing reporting for continued monitoring

Lincoln Financial Group   Greensboro, NC
Data Scientist   *May 2018 - July 2019*

- Created Tableau dashboards for leadership and project managers to monitor the status of team projects.

- Used statistical analysis to provide insight into consumer profiles for various products. I also presented these findings to shareholders and senior leadership.

- Produced upsell leads for sales teams by creating an Extreme Gradient Boosted tree model predicting coverage need using demographic data mined from multiple data sources and comparing the result to policy holder's current coverages.

- Created a triage model for insurance applicants using a random forest to determine the probability that a given applicant would qualify for the fluidless underwriting process based on demographic data.

- Created Consumer Clusters to get a better idea about what customer segments were buying which products.Worked with advanced analytics leadership to kickstart an Analytics Center of Excellence within Life Solutions.

- Performed feature reduction via stepwise regression, gini importance, principal components analysis, and business domain knowledge to determine useful features from noisy datasets in excess of 800 fields.

- Worked as a member of the Analytics Center of Excellence to promote advanced analytics adoption enterprise wide and set standards for documentation and best practices. Gathered training resources for analytics professionals throughout the organization and promoted a sense of community through regular demonstrations and lunch and learns surrounding analytics work being performed at the company.

- Acted as data warehousing expert for my team consisting primarily of actuaries by assisting with ETL activities and providing trainings for relational database management to streamline workflows and reduce compute times of mission critical data management tasks.

- Served as a mentor to actuaries with a vested interest in improving their data science techniques and practices to better service their team's needs.

Old Dominion Freight Line Thomasville, NC
Oracle Database Administrator   *May 2016 – May 2018*

- Responsible for the modernization of AS400 database system from early 90s to Java on Unix web servers. This meant interpreting and understanding the original flat file design with limited documentation and designing compatible Oracle DB structures used in a cluster environment.

- Implemented DBA best practices to manage development teams working on legacy and Oracle systems concurrently. This includes validating data quality and data synchronization using Veridata and version controlling for Database structure using DBMaestro.

- Identified potential truck driver and gas mileage ROI validation opportunity based on conversations with BI Team lead. With a predictive model, the business could compare actual truck gas mileage performance collected via sensor data versus expected behavior to identify and improve sub-optimal performance.

- Collected, aggregated, and cleansed data from Oracle DB, Excel spreadsheet, and other sources to produce a model to predict gas mileage utilizing sensor and environmental data. This model was presented to Business Intelligence leadership and accepted as appropriate and useful in estimating an optimal gas mileage for a given route.

- Successfully applied predictive model and k-means clustering to identify fleet of trucks with similar types of performance characteristics, including those that were under performing.

Lucy C. Ragsdale High School   Jamestown, NC
Mathematics Teacher   *December 2013 – April 2016*

INDEPENDENT/ONLINE LEARNING
R For Data Science
DataCamp.com, Certificate of Completion   *January 2018*

EDUCATION
University of North Carolina Greensboro   Greensboro, NC
MS: Information Technology and Management with a concentration in Business Analytics   *December 2017*

Appalachian State University   Boone, NC
BS: Mathematics, Secondary Education   *December 2013*

To see my digital resume and browse some of my completed projects, visit my website:
www.orrinwheeler.info