

# Ra'Shawn Howard

DATA SCIENTIST

Tulsa, OK 74136

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Statistics and numbers are no good unless you have good people to analyse and interpret their meaning and importance

## General Skills

- Data Visualization
- R, SAS, Python, SQL
- Tidymodels for Modeling
- \* Machine Learning
- \* Data Wrangling
- \* Linear and Non-linear Models
- \* Statistical Analysis
- \* Tidyverse for Data Wrangling
- \* PCA/PLS

## Education

### Oklahoma State University

MASTER OF APPLIED STATISTICS

Stillwater, Oklahoma

2021

### Northeastern State University

BACHELOR OF COMPUTER SCIENCE

Tahlequah, Oklahoma

2019

## Work History

### Mathematics Tutor

TUTORED APPROXIMATELY TWELVE STUDENTS PER WEEK IN PRIVATE SESSIONS USING DETAILED LESSON PLANS. CREATED STUDY GUIDES AND PLANS FOR STUDENT EXAM PREPARATION BASED ON SELF-DESIGNED PRACTICE TESTS AND SCHOOL CURRICULA. INITIATED COMMUNICATION WITH STUDENTS TO ADDRESS LEARNING CONCERNS AND OFFER ADDITIONAL GUIDANCE FOR INDEPENDENT STUDY. COLLABORATED WITH TEACHERS ABOUT SPECIFIC STUDENT MATH NEEDS.

John Vaughan Library – Tahlequah, OK

2019

### Mathematics Tutor

COLLABORATED WITH STUDENTS TO COMPLETE HOMEWORK ASSIGNMENTS, IDENTIFY LAGGING SKILLS AND CORRECT WEAKNESSES. IDENTIFIED LEARNING NEEDS AND IMPLEMENTED FUN AND ENGAGING LEARNING ACTIVITIES TO HELP STUDENTS ADVANCE. MAINTAINED DETAILED FILES AND CREATED CHARTS TRACKING STUDENTS LEARNING PROGRESS. SUPPORTED STUDENTS WITH HELPFUL STUDY HABITS AND EXAM STRATEGIES.

Northeastern State University – Tahlequah, OK

2019

## Projects

### 1

FAKES AND SPAMMERS ARE A MAJOR PROBLEM ON ALL SOCIAL MEDIA PLATFORMS, INCLUDING INSTAGRAM. BEING ABLE TO IDENTIFY THESE ACCOUNTS CAN HELP MEMBERS OF THE PLATFORM NOT BE SOLICITED BY SAID ACCOUNT. AFTER EDA AND PREPROCESSING OF THE DATA, SEVERAL MODELS WERE BUILT TO PREDICT IF AN ACCOUNT IS A SPAM ACCOUNT. SOME MODELS INCLUDED IN THE MODEL BUILDING PROCESS WERE KNN, BOOSTED TREES, SVM, AND LOGISTIC REGRESSION. THE METRICS INVESTIGATED TO SEE WHICH YIELDED THE BEST RESULTS ARE SENSITIVITY, SPECIFICITY, ACCURACY, AND AREA UNDER THE ROC CURVE.

Spam Account Detection Modeling

Project

### 2

THESE DAYS WHEN THE WORLD IS SUFFERING FROM A PANDEMIC SITUATION, IT BECOMES REALLY HARD TO MAINTAIN MENTAL FITNESS. KEEPING IN MIND THAT HAPPY AND HEALTHY EMPLOYEES ARE INDISPUTABLY MORE PRODUCTIVE AT WORK, AND IN TURN, HELP THE BUSINESS FLOURISH PROFOUNDLY. AFTER EDA AND PREPROCESSING OF THE DATA, SEVERAL MODELS WERE BUILT TO PREDICT EMPLOYEE BURN RATE. MODELS INCLUDED LINEAR REGRESSION (RIDGE, LASSO, ELASTIC NET), KNN, MARS, RANDOM FOREST, CUBIST, AND BOOSTED TREES. RMSE AND R-SQUARED WERE USED TO EVALUATE MODEL PERFORMANCE.

Mental Health Analysis

Project