

Carolyn Davis



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Technical Skills

Python - SQL - Tableau - Git - NumPy
- Pandas - Scikit-learn - Matplotlib -
Seaborn - Jupyter - Apache Spark -
Google Suite - Excel - Applied
Statistics - SciPy - Machine Learning -
NLP

Summary

U.S. Army Veteran and Data Scientist with five years of experience in signals analytics both overseas and stateside with consistent maintenance of a TS/SCI clearance and CI polygraph. Possesses the the desire to solve real world issues with the aid of machine learning, data science, and practical experience. I am eager to provide actionable, data directed solutions and solve complex questions with the application of data science

Employment Experience

Americorps, Job Placement Specialist 08/2020 - 08/2021

Worked on site with students to gain employment in respective vocational fields. Met with students to outline plan to meet professional goals Introduced students to community resources to aid those living below the poverty line. Taught classes on skills necessary to meet professional goals.

United State Army, Cryptologic Linguist

Served as lead transcriber, translator, and Quality Control Analyst with specialities in Persian Farsi and Afghan Dari languages. Acted as the lead Intelligence Oversight Officer insuring proper cyber-security procedures were followed both stateside and overseas in combat environments. Received a Battlefield promotion from the rank of Specialist to Sergeant for prestigious actions and leadership while serving in the Iraq.

Project Development

Carribbean Hurricane Prediction, October, 2021

FB Prophet Modeling

Utilized data originating from the HURDAT database from National Hurricane Center to analyze key drivers of hurricanes in the Caribbean region of the Atlantic. Explored and tested three modelings, ultimately gaining key insight from the FB Prophet model provided by Facebook. This model proved to be most compatible with the nonlinear trends seen in the data, ultimately producing an RMSE of 31.4%.

Home Tax Value Prediction at Zillow, September 2021

Regression Modeling

Using the Zillow dataset, I created multiple regression models utilizing home features to predict home values. Through visualizations and statistical testing, I discovered key drivers of home value. With testing on LinearRegression and LASSO+LARS models, it was found that OLS performed best in predicting home value; beating the baseline RMSE of 576143.17, with a RMSE of 436703.50.

Customer Churn at Telco, September 2021

Classification Modeling

With use of the Telco dataset, I created multiple classification models by utilizing explored trends and patterns to identify key drivers of Churn. Models developed and tested included JNN, Random Forest, and Logistic Regression. With a baseline accuracy established at 73.43%, the Random Forest performed best with an accuracy of 77%, indicating month-month-churners specifically with fiber optic services being key clients of churn.

Education

University of Arizona Global Campus

Chandler, Arizona

Bachelor of Arts in Applied Linguistics
2021

Defense Language Institute

Monterey, California

Certification in Persian Farsi
2017