

DESIREE MCELROY

DATA SCIENTIST

 915-497-5959  desireeashley90@gmail.com  /DesireeMcelroy  /desiree-mcelroy

Data Scientist and United States Navy veteran leveraging an active Top Secret SCI clearance and recent training received in data science from a 22-week immersive bootcamp. Tech savvy professional, with adept knowledge of, and practical experience in machine learning and data science. My combination of education and professional background has equipped me with a versatile skill set.

TECHNICAL SKILLS

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

WORK EXPERIENCE

US Navy Reserves, Language Analyst

AUG 2019 - CURRENT

Serve as trainer and mentor to all newly assigned and existing intelligence language analysts; led and developed employees, oversaw performance, and growth in intelligence collection, interpretation, and reports development.

Chenega Corp., Intelligence Analyst

JUL 2019 - FEB 2021

Served as a point person providing support to Dept. of Air Force OSI mission to conduct professional investigative service to leaders of all Air Force in CI and LE activities.

US Navy, Intelligence Ops Supervisor

AUG 2013 - AUG 2019

Served as a primary manager of the collection, analysis, storage, retrieval, and dissemination of intelligence data; identified and collected intelligence information from a wide variety of sources.

EDUCATION

Codeup Data Science Program

Mar 2021 - Sep 2021

Indiana University East

BA Natural Science & Mathematics, GPA: 3.7

Dec 2020

Defense Language Institute

AA Mandarin Chinese, GPA: 3.8

Mar 2015

DEVELOPMENT PROJECTS

Houston, We Have a Pay Gap, September 2021

REGRESSION MODELING

Using data acquired from the Texas tribune, our group created a machine learning model that predicts a Texas government employee's annual salary based on demographic information including race and gender. We employed the data science pipeline by preparing our data, conducting feature engineering, executing statistical tests, and creating visualizations using Python and Tableau. We created multiple competitive regression models and ultimately were able to predict an employee's salary within a \$20,000 variance.

Predicting Repository Languages, August 2021

NATURAL LANGUAGE PROCESSING

Group project where we utilized web scraping techniques to obtain data from GitHub repositories' readme contents. Conducted NLP exploration and created multiclass classification models to accurately predict the programming language of the stripped data with an 83% overall accuracy.

World Health Organization: Life Expectancy, July 2021

REGRESSION MODELING

Created a regression model utilizing the World Health Organization's Life Expectancy dataset to predict average life expectancy based on country factors including population, polio vaccine rates, and infant mortality count. Utilized python, JupyterLab, pandas, numpy, sklearn, scipy, matplotlib and seaborn libraries to wrangle, visualize data, and create a regression model to accurately predict life expectancy within a 3 year variance.

Home Tax Value Prediction, June 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 uncovered top drivers of home value. I created a ML model that accurately predicted a California based home's value within a \$200,000 range.