




Joshua Shorter-Ivey

Data Scientist

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Having spent 15 years as an Air Traffic Controller, both in supervisory and assistant roles, I developed strong skill sets related to researching, analyzing, developing, and applying systems in high stakes environments. I'm looking forward to applying my skills, experience, and passions to the intersection of data science and economics.

TECHNICAL SKILLS

Python - SQL - Tableau - Matplotlib - MySQL - pandas - NumPy - Spark - Git - Applied Statistics - Machine Learning - Natural Language Processing - Data Storytelling - Tableau

DATA SCIENCE PROJECTS

Predicting Tax Value of Real Estate within a subset of Zillow Data

Utilized entire data science pipeline to support regression modeling of predicted tax value

Identifying Drivers of Zillow Estimate Errors with regression and clustering

Pair programming project to predict zestimate errors. Primarily tasked with handling the modeling, and created custom gridsearch functions to facilitate project completion. Tested PLF, LARS, GLM, and OLS models.

Predicting Unemployment Status Using Census Survey Data to identify employment disposition

Experimented with real world Aug 2022 Current Population Survey data. Project required heavy work in feature paring and data dictionary translation. Focused primarily on Sensitivity in order to more accurately capture the 'unemployed'

Capstone Project

Perform analysis on trending Youtube videos and the channels that create them in order to craft a machine learning algorithm predicting a videos placement in Top 25 of Youtube's Top 200 trending list.

PROFESSIONAL EXPERIENCE

Synthesis, Inc. - Remote

Teaching Assistant | July 2021 - Current

- Provided technical and pedagogical support for teachers across a variety of student-facing events
- Collaborated in developing concept-based courses from proposal to growth stages
- Contributed to professional community through continuous development sessions

United States Air Force and Civilian Postings - Multiple Locations Worldwide

Air Traffic Control Specialist/Supervisor | Jan 2005 - Dec 2020

- Issued ATC clearances, instructions, and advisories to aircraft within the terminal area, facilitating efficiency
- Separated aircraft by use of visual, radar and non-radar means through dangerous and complex airspace
- Effectively relayed weather, airport conditions and operating/procedural information to pilots ensuring flight safety

EDUCATION

Codeup

Certification of Completion

Jun 2022 - Nov 2022

Fully-immersive, project-based 20-week career accelerator that provided me with 670+ hours of expert instruction in applied data science. Developed expertise across the full pipeline (planning, acquisition, preparation, exploration, modeling, storytelling), and become comfortable working with real data to deliver actionable insights to diverse stakeholders.

Laney College, Oakland

Associates Degree for Transfer, Economics

Jun 2020 - May 2022

Completed two years of course in general education and economics while preparing for transfer to finish Bachelor's Degree