


Andrew Jensen

Data Scientist

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World traveler, with a diverse background in teaching, geology, and management. My bachelor's degree in geology and love for problem-solving, has fostered my ability to think critically about data. My interpersonal skills and exceptional communication skills drive my curiosity of people and how data relates to our everyday lives.

TECHNICAL SKILLS

Python - SQL - Tableau - Matplotlib - MySQL - pandas - NumPy - Seaborn - Git - Applied Statistics - Machine Learning - Regression, Clustering, and Classification Modeling - Time Series Analysis - Natural Language Processing - Data Storytelling

DATA SCIENCE PROJECTS

STAAR Passing Rate Regression Project (Capstone):

https://github.com/college-readiness-preds/capstone_readiness/blob/main/final_notebook.ipynb

Data was scraped from the TEA website and prepared. We built a model to predict passing rates for high school students taking the STAAR exams. School administrators could use our model to predict their schools passing rate and make adjustments based on our findings.

Environment: Used pandas to explore and prepare data, matplotlib and seaborn to visualize data, and sklearn for modeling and evaluation

NLP README analysis: <https://github.com/NLP-mini-project/NLP-MVP/blob/main/final-report.ipynb>

Web scraping was used to get the READMEs and their primary coding language off of GitHub. Using NLP, we made a model to predict the primary coding language using TF/IDF, bigrams, and trigrams.

Environment: Used pandas to explore and prepare data, matplotlib and seaborn to visualize data, and sklearn for modeling and evaluation

Wine Classification/Clustering Project:

<https://github.com/Taste-the-Vines/Wine-Quality-Project/blob/main/final%20notebook.ipynb>

Data was originally acquired from data.world. We attempted to predict wine quality based on several different features. Clustering was used to engineer features in order to improve model accuracy.

Environment: Used pandas to explore and prepare data, matplotlib and seaborn to visualize data, and sklearn for modeling and evaluation

International Time to Conflict Project: <https://github.com/Andy-Jensen/Individual-Project/blob/main/final-report.ipynb>

I gathered data from Uppsala University in Sweden about global armed conflicts. I engineered a target feature for the time from the start of a conflict to the time there were at least 25 casualties. After that, I used machine learning to build a model to predict the target feature.

Environment: Used pandas to explore and prepare data, matplotlib and seaborn to visualize data, and sklearn for modeling and evaluation

Zillow Regression Project: <https://github.com/Andy-Jensen/Zillow-Project/blob/main/final-report.ipynb>

I was assigned to query and evaluate single family homes in the Zillow dataset. I delivered a final report with determined drivers of property value and a regression model.

Environment: Used SQL to query the server, pandas to explore and prepare the data, matplotlib/seaborn/Tableau to visualize the data, and sklearn to generate regression models and evaluation metrics

Telco Classification Project:

https://github.com/Andy-Jensen/classification_project/blob/main/final_report.ipynb

I analyzed a Telco churn dataset to determine drivers of churn. Once drivers were identified, I created a ML classification model to accurately predict customer churn.

Environment: Used pandas to explore and prepare data, matplotlib and seaborn to visualize data, and sklearn for modeling and evaluation

PROFESSIONAL EXPERIENCE

Future Leadership Academy – Lingshui, Hainan, China

Teacher, Science Coordinator, and HOD of STEM / Jan 2020 - July 2022

- Managed a staff of 6 science teachers and was liaison for communication from department heads and principals
- Coordinated staff work assignments, government compliance, performance reviews/evaluations, and curriculum planning.
- Full-time instructor in science, PE, guitar, English as a second language (ESL), and after school rock climbing courses for primary and middle school students
- Fulfilled the role of Head Teacher for grade 5 students
- Participated in the Discipline Committee, Drama Night, and Arts Presentation Night

Hebei Normal University – Shijiazhuang, Hebei, China

English Teacher (ESL) / March 2019 - Jan 2020

- Developed innovative lesson plans and engaging activities for Freshman and Sophomore level Listening and Speaking classes and Freshman level Oral English classes
- Prepared adult Chinese teachers and students for traveling abroad by introducing them to Western culture

Ellson English – Shijiazhuang, Hebei, China

ESL Teacher / March 2018 - Jan 2019

- Prepared and taught lessons to pre-K to primary school aged children utilizing *Pearson* ESL curriculum.
- Taught additional English courses to Chinese co-workers and Introduced cultural concepts from around the world.
- Trained new English instructors.

Atlanta Environmental Management – Atlanta, GA

Staff Geologist / March 2015 - Jan 2018

- Assessed and tracked remediation for clients in a variety of programs. (Stormwater pollution prevention, hazardous waste, environmental management systems, etc.)
- Collected, assessed, and reviewed data using a variety of collection methods.
- Managed a team of 5 samplers for a multi-year water sampling project.

EDUCATION

Codeup

Certification of Completion

Oct 2022 - Mar 2023

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, messy data to deliver actionable insights to diverse stakeholders.

Western Carolina University

Bachelor of Science

Cullowhee, NC - May 2014

Completed four years of undergrad focusing on geology with a concentration in solid Earth.