


# ANDREW KONSTANS

## Data Scientist

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### TECHNICAL SKILLS

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

### DATA SCIENCE PROJECTS

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**Multifamily Housing Screen:** <https://github.com/Project-DANE/DANE>

Partnering with CWS Capital Partners, our group created a supplementary screen that uses features taken from the company's SQL server to minimize the amount of delinquencies and damages the company suffers. The result was a model that yields a 55% reduction in the amount of damages and loss suffered. My role in this group was to head the group and I was also responsible for the building of a majority of the models as well as acquisition from the SQL servers and part of the data exploration.

**Environment:** SQL, Python

**Speakeasy Casino NLP:** <https://github.com/orgs/Speakeasy-Casino/repositories>

Our group created a NLP model that is able to scrape a project's Github README and return the language or environment that the project was coded in. We scraped repositories of projects that contained the phrase "Blackjack". The outcome was a model that could determine with 78% accuracy the language or environment that was used in the project. This was above our baseline of 54%.

**Environment:** Python, Web Scraping via Python(Beautiful Soup)

**Individual Project Tech Stock Predictions:** [https://github.com/akonstans/individual\\_project](https://github.com/akonstans/individual_project)

I created a model using ARIMA that was used to predict stock prices of Google, Netflix, Amazon, and Apple. Using the data obtained via Polygon.io API I created an ARIMA model that was able to quite accurately predict Netflix stock prices, however, since the data from the API was limited to the past two years it was difficult to predict any trends for the other 3 stocks.

**Environment:** Python, Polygon.io API

**Fine Wine Project:** <https://github.com/orgs/Fine-Wine/repositories>

Using clustering our group created to analyze a Kaggle dataset of different wines. Used the clustering data to create a model that will accurately predict wine quality. We were able to beat the baseline and achieved an accuracy of 71% using a decision tree classifier.

**Environment:** Python

**Classification Project:** [https://github.com/akonstans/Classification\\_Project](https://github.com/akonstans/Classification_Project)

During this project I created a simple classification model to predict whether a customer would or would not churn using algorithms like Random Forest and Decision Tree Classifiers. What was the outcome?

**Environment:** Tableau, MySQL, and Python

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## PROFESSIONAL EXPERIENCE

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### **Pearson Partners International** - Dallas, TX

Contractor | Jun 2022 - Oct 2022

- Worked on searches to gather information and compile lists of viable candidates for different fields.
- Began a database cleaning project to remove any excess information from the company's candidate database.
- Using Excel to create a past and potential candidate list containing candidate data from the last 18 years to aid in more streamlined candidate acquisition and identification.
- Responsible for aiding in putting together special candidate reports.

### **CWS Corporate Housing**, Austin, TX

Contractor | May 2022 - Jun 2022

- The company provides short term fully furnished housing services for employees of major companies such as Dell, Coca Cola, Chevron and Shell.
- Aided in preparation of many different apartment layouts for the company.
- Trouble shooter for technical issues in corporate housing setups, such as WiFi connections, etc.

### **CWS Capital Partners**, Multiple Locations

Contractor | Jun 2016 - Aug 2016 And Jun 2015 - Aug 2015

Capital Projects Division:

- Chronicled \$25 MM of necessary capital projects for budgeting purposes after walking 60 assets. Traveled with the Capital Projects team to six cities in Texas, North Carolina, and Georgia. Helped assess capital expenditure needs for each asset and create a tentative budget for the next year based on current needs and resources available.

Construction Division:

- Assisted in all aspects of the complete interior demolition and reconstruction of the mid-rise apartment community Marq 211 renovation project in downtown Seattle (Belltown).

## EDUCATION

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### **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.

### **Southern Methodist University**, Dallas, TX

Left as a Senior, completed core business and Finance courses through Junior level before deciding to pursue Data Science certification at Code Up.