

WILL NOBLES

DATA SCIENTIST

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Skills

PROGRAMMING LANGUAGES

Python
SQL
Java
C++
C
HTML/CSS

MACHINE LEARNING

Linear Regression
Classification
Natural Language Processing
Neural Networks

DATA VISUALIZATION

Tableau
PowerPoint/Slides
matplotlib
seaborn

LIBRARIES

pandas
scikit-learn
NLTK
spaCy
TensorFlow

OTHER

git
Unix

DATABASE MANAGEMENT

PostgreSQL
BigQuery

Education

Arizona State
University
BS Physics 2015

Experience

Metis

Data Scientist

New York, NY

Jan. 2021 to Mar. 2021

Completed an immersive 12-week data science bootcamp, developed five machine learning models using real-world datasets, and communicated results to stakeholders utilizing data visualization techniques.

Projects include:

Predicting Hospital Readmission for Diabetes Patients

- Analyzed data collected and stored on a PostgreSQL database from 130 hospitals over 10 years related to inpatient encounters for diabetes patients to determine the features related to readmission
- Implemented a random forest classification model to predict whether a patient will be readmitted
- Improved the model's recall with random oversampling technique

What Makes a Question Helpful? Topic Modeling Exploration of Stack Overflow Text

- Performed topic modeling on top-scoring posts on Stack Overflow using Latent Dirichlet Allocation with a CountVectorizer object to explore topics related to questions considered helpful by users to assist stakeholders such as educators in determining topics that learners commonly have difficulty with

What Kind of Whiskey Gets High User Ratings?

- Collected data for various attributes of different whiskeys from the Total Wine website by web scraping using BeautifulSoup and Selenium in order to train a linear regression model using LassoCV that predicted the average user rating for a certain bottle

Batman Themes: Text Mining of Burton and Nolan Screenplays

- Performed topic modeling on five screenplays from the Batman films directed by Tim Burton and Christopher Nolan using Non-negative Matrix Factorization with a CountVectorizer object to extract information regarding the tone of the films and investigate what language makes the films different between directors

Exploratory Data Analysis Using MTA Turnstile Data

- Analyzed turnstile data in New York City provided by the Metropolitan Transit Authority (MTA) to assist the Women Tech Women Yes (WTWY) organization in maximizing attendance at its annual gala and increasing awareness around the organization's efforts to increase the participation of women in technology
- Used Pandas to perform exploratory data analysis, matplotlib and seaborn to create visualizations

Crestline Advisors

Data Analyst (Contract Consultant)

Chandler, AZ

Oct. 2017 to Dec. 2020

- Utilized advanced Excel skills to develop member sampling and audit tools necessary for pharmacy provider audits
- Edited state scoring evaluation documents to provide feedback on Medicaid RFPs
- Performed data aggregation/management of online provider survey results to create tables and graphs for visual presentation of results

TEKsystems

Application Developer (Contract Consultant)

Phoenix, AZ

Feb. 2017 to May 2017

- Collaborated with developers, construction workers to build mobile application features to streamline construction site productivity using MobileFrame
- Wrote complex SQL queries to retrieve data related to prior workplace safety incidents to support machine learning prediction of future hazards

Aetna

Encounter Validation Analyst

Phoenix, AZ

July 2015 to Jan. 2017

- Utilized and monitored software applications and databases, including Rumba/PMMS; IPSwitch; Pend Analyze; Encounter Data Management System to process and submit claims information in an appropriate format for stakeholders
- Completed regression testing to support patient data analysis
- Edited and ran SQL scripts to retrieve claims data
- Used virtual machines for executing mass void data validation scripts
- Prepared and loaded weekly pend correct files using SSIS (SQL Server Integration Services) package

Chandler-Gilbert Community College

Math/Physics Tutor

Chandler, AZ

Jan. 2013 to Apr. 2016

- Delivered analytical expertise to guide 100+ students each semester through critical thinking strategies necessary to resolve complex math and physics problems