

ESTEBAN ZUNIGA

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Skills

PROGRAMMING

Python
HTML/CSS
JavaScript

SUPERVISED MACHINE LEARNING

Linear/Logistic Regression
Tree-based methods (CART)
Neural Networks

UNSUPERVISED MACHINE LEARNING

K means
Dimensionality reduction

NATURAL LANGUAGE PROCESSING

Topic Modeling(NMF/LDA)
Collaborative Filtering
TF-IDF
Count Vectorizer

DATA TOOLS

Numpy
Pandas
SKlearn
Keras
Spark

DATABASES

SQL
MongoDB

DATA VISUALIZATION

Matplotlib
Seaborn
Tableau
Plotly
D3

Activities

Playing Jazz Guitar
Tennis

Education

St. Thomas School of Law

July 2019 to Dec. 2019

City College of New York

Bachelor History 2014

Jazz Studies; Economics

Experience

Metis

Data Scientist

New York, NY

June 2020 to Sept. 2020

Completed a 12-week accredited data science bootcamp focused on Python programming, machine learning, statistical modeling, data visualization, project design, and communication. Devised four individual supervised and unsupervised machine learning models to implement objectives and build statistical models using historical data.

Sentiment Analysis on Rock Music Lyrics

- Performed topic modeling of rock music lyrics to examine broad themes that run through rock music. (NMF-LDA)
- Used TD-IDF and Count vectorizers.

Predicting Loan Default

- Trained and built a classification model that would predict whether an applicant would default on a loan.
- Used historical data from the Lending Club and used a linear regression to select features such as debt-to-income ratio, income, credit score and years of employment.
- Modeled the default risk by comparing 3 different supervised classification models(logistic regression, decision tree and random forest.
- Suggested a threshold to set the model depending on risk tolerance.

Bronx Bombers--Predicting Yankee Home runs

- Web scraped historical Yankee data from 1960-2018 data using Selenium and Beautiful Soup.
- Used Pandas to put into a workable data.
- Used Sci-Kit Learn's linear regression model to predict how many home runs a player would hit.

MTA Data -- Exploring a location for a Rooftop Bar

- Used historical data from NYC MTA and cleaned and formatted into workable data.
- Implemented Matplotlib and Seaborn to visualize and make statistical models of the data
- Made a suggested location based on subway stations that had high exit turnstile numbers near other bars during the evening and weekend hours.

McAllen Lincoln Middle School

History Teacher

McAllen, TX

2014 to 2015

- Taught the Common Core curriculum for 7th grade history to a diverse set of children
- Developed lesson plans and tracked student performance
- Responsible for managing the classroom environment to ensure teaching best practices while developing curriculum, and grading all exams and class work
- Participated in team and department meetings
- Assessed student learning styles and made appropriate adjustments to lesson plan

Volunteering

Bowery Mission

Jan. 2012 to Current

Volunteering at a shelter. Supporting the food line by assembling and serving meals to residents.