

CONTACT

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SKILLS

LANGUAGES

Python
SQL
HTML

LIBRARIES

scikit-learn
imb-learn
pandas
pyspark
numpy
streamlit

NATURAL LANGUAGE PROCESSING

Gensim
CorEx
NLTK
SpaCy

DATA VISUALIZATION

Tableau
Seaborn
Matplotlib
Powerpoint
Google Suite

WEBSCRAPING

Selenium
BeautifulSoup

MACHINE LEARNING TECHNIQUES

Regression
Classification
Unsupervised Learning
Neural Networks

EDUCATION

Rutgers University May 2016
B.A. Physics 2015
Ed. M. Science Education 2016

SUMMARY

Physics Teacher turned Data Scientist with a passion for telling the story that data has to tell.

PROJECTS

- What Do Data Scientists Talk About? Fall 2020
- Mapped 10 topics and 30 subtopics to 35,000 articles from Medium.com with a focus on the Towards Data Science editorial.
 - Examined document context by using document vectors using Gensim Doc2Vec and KMeans clustering.
 - Interpreted document topic distribution using Non-negative Matrix Factorization .
 - Explored results of findings through a Tableau dashboard to provide insight to what Data Science blogs talk about.
- Hiking Trail Recommendation System Fall 2020
- Webscraped 400,000 hiking trail reviews and 14,000 hiking trail descriptions using Selenium and BeautifulSoup.
 - Used SpaCy, CoEx and Sklearn technologies to perform topic modeling and clustering.
 - Built a recommendation system filtering by topic similarity of review and descriptions.
- Rain Prediction with Classification Fall 2020
- Scraped to get 20 years of daily weather updates using BeautifulSoup and Selenium.
 - Deployed a recommendation app and showed results on Streamlit
 - Trained four classification models to classify rainy events using lagged data and imblearn libraries to deal with imbalanced data.
- Analysis of Box Office Domestic Gross Fall 2020
- Accurately predicted domestic success of movies using features engineered to quantify the likability of its cast and crew.
 - Leveraged machine learning with linear regression and LASSO regularization.
 - Performed web-scraping and cleaning using BeautifulSoup, Selenium and Pandas Libraries.

EXPERIENCE

- Metis Data Science Bootcamp New York, New York
Sept. 2020 to Dec. 2020
Data Scientist
- Metis is an ACCET accredited 12week immersive data science bootcamp focused on project oriented learning.
 - The core curriculum is centered around Python, statistics, supervised and unsupervised machine learning, exploratory data analysis, databases, and visualization techniques.
 - Leveraged scikit-learn libraries to perform regression, classification, and clustering tasks with biweekly deadlines and project stand ups.
 - Investigated document and text meaning by utilizing NLP libraries and presented results to a cohort of peers.
 - Developed webscraping skills to collect and organize data for individual projects.
 - Managed a local PostgreSQL database to store information for projects.
 - Collaborated with peers in daily pair programming exercises to achieve a common goal.
- Fair Lawn High School Fair Lawn, New Jersey
Sept. 2016 to June 2020
Teacher of Physics
- Courses:** *AP Physics C Mechanics, AP Physics C Electricity and Magnetism, AP Physics 1, College Prep Physics*
- Simplified complex concepts for students to show interdependence of physics and related technical subjects such as calculus and chemistry.
 - Acted as a liaison between the science and technology departments to facilitate the transition to 1-1 devices.
 - Planned weekly investigative experiments and laboratories for students to explore physical concepts and to provide a tangible experience.
 - Developed a standard for data literacy across the district.
- Rutgers University New Brunswick, New Jersey
Sept. 2014 to May 2016
Part Time Lecturer
- Courses:** *Physics for Sciences 750:193 and 750:194*
- Coordinated with the professor to communicate his goals to the students completing lab investigations.
 - Conducted weekly meetings with a cohort of teaching assistants to plan for potential student difficulties in the upcoming coursework.
 - Guided college students in laboratory procedures and safe equipment etiquette.
 - Incorporated the Investigative Science Learning Environment (ISLE) in the classroom.