

LINDSAY READ

DATA SCIENTIST

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Skills

PROGRAMMING & WEB DEVELOPMENT

Python
SQL
HTML
CSS
PySpark
JavaScript
Web Scraping (BeautifulSoup)
Object Oriented Programming
API

DATA MANAGEMENT AND CLOUD STORAGE

AWS Cloud Computing
Google Cloud Computing
Tableau
DBever

MACHINE LEARNING

Natural Language Processing (NLP)
Unsupervised Learning
Supervised Learning
Transfer Learning
Linear Regression
Classification Algorithms
Feature Engineering
Topic Modeling
Recommendation Systems
Clustering
EDA
Word Embeddings

VISUALIZATIONS

Tableau
Plotly
Flask App
Streamlit App
Matplotlib

LANGUAGES

English
Spanish

Projects

NLP and Metadata-Based Hotel Recommender

Sept. 2020 to Sept. 2020

- Employed Google Places API in conjunction with Google Translate API to assemble hotel data from over 600 hotels and nearby places
- Applied NLP and transfer learning techniques to vectorize hotel reviews
- Deployed a StreamLit app to provide a personalized hotel recommendation based on a user's unique text input and selection of features
- Based on customer inputs and engineered features, generated cosine similarity matrix to determine recommended hotels

NLP Analysis of Taylor Swift Lyrics

Aug. 2020 to Aug. 2020

- Assembled Natural Language Processing and Unsupervised Learning techniques such as NMF, TF-IDF, K-Means Clustering, and t-SNE to identify core topics and clusters of Taylor Swift Lyrics
- Displayed how the topics changed over time using Tableau
- Model provided insight to the topics that generated the most and least amount of sales

Predicting Number of Yards Run by Rookie NFL Running Backs

July 2020 to July 2020

- Scraped data of over 400 Running Backs from the web using BeautifulSoup
- After some Feature Engineering and Logarithmic Transformations, created a Linear Regression Model to predict the total number of yards run by a Rookie Running Back in the NFL
- Model had a R-squared value of 0.348 and a mean error of about 285 yards

Predicting Customer Churn (Classification)

July 2020 to Aug. 2020

- Evaluated the most relevant features for customers leaving a telecommunication company by mapping data with various Classification Models (Logistic Regression, KNN, Naive Bayes, Decision Tree, and Random Forests); identified Random Forests as the best model to optimize for F1 Score
- Stored data on an AWS machine
- Engineered features and explored data with SQL queries

Providing the Optimal Time and Location to Advertise at NYC Subways

June 2020 to July 2020

- Teamed up with 3 colleagues to investigate NYC Turnstile Data to provide insights to a company wanting to promote their business to potential stakeholders
- Through Exploratory Data Analysis, provided the company with optimal times of the day and days of the week to advertise their business
- After investigating coordinates of Universities and Tech Centers, provided guidance for the company to advertise at subway stations within close proximity of those Universities and Tech Centers

Experience

Metis Data Science

Data Scientist

June 2020 to Current

- Immersive 12 week ACCET Accredited Data Science Bootcamp
- Conducted 5 data science projects with Natural Language Processing, Deep Learning, Linear Regression, and Classification techniques
- Collaborated with colleagues to solve daily coding challenges
- See "Projects" section for more details

Food Safety Net Services

Microbiologist, Lab Supervisor in Training

Greeley, CO

Sept. 2018 to Mar. 2020

- Lead, mentored, and trained over 10 new employees on essential duties in the Pathology Laboratory
- Executed internal audits to verify microbiological procedures and requirements were met
- Coordinated lab flow with 4 other departments to ensure in timely and accurate results
- Communicated professionally and effectively with clients and colleagues
- Demonstrated a high level of integrity and reliability by maintaining detailed and accurate records of results
- Performed CAPAs (Corrective Action & Preventative Action Reports) to solve potential problems in the lab

Education

Colorado State University

Bachelor of Science Microbiology 2018

Bachelor of Art Spanish Language, Literature, and Culture 2018

Scholar Athlete, Division I Student Athlete

Aug. 2014 to May 2018