

Daniel Aguilar

DATA SCIENTIST

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PROJECTS

Subreddit Finder

Python, Flask, kNearest-Neighbors, Naive Bayes, Paperspace, API

This app allows you to write a post about anything and it will return the best subreddit for you to post on. I developed a flask app on heroku to implement a machine learning algorithm (Naive Bayes Classification) responsible for returning the best subreddit after feeding in the text of a new reddit post.

Data Analysis Spotify Dataset

Python, Jupyter, Linear Regression, Random Forest Regressor

I used machine learning principles and data exploratory analysis on a Spotify dataset that contained approximately 125K rows of quantitative data revolving around different artists and their prospective song tracks. I created a linear regression model as a baseline to predict which genres of music are popular based on training the model with the quantitative features in the dataset such as (danceability, popularity, liveness, loudness, etc...). I optimized the model with a random forest regressor with a random search pipeline for hyper parameter tuning.

Topic Modeling

NLP (spacy), Gensim LDA, LatentDirichletAllocation, Count Vectorizer

Utilizing 2,225 BBC articles divided into five different sections, I used natural language processing to process the articles into two different machine learning algorithms to identify the major topics of each of the five sections. I used both gensim LDA and LatentDirichletAllocation for topic modeling. I also did an analysis on G20 countries mentioned in the articles to identify the major topics revolving around those countries.

EXPERIENCE

DATA SCIENCE TEAM LEAD

01/2020 to CURRENT

Lambda School | CA

Managing a group of data science students within the Lambda School data science program. Responsibilities includes:

- Debugging students code to help complete their projects using python and python packages (pandas, numpy, plotly, scikit-learn, sql, etc)
- Grading all assignments and assessments of the students
- Providing assistance to all students with any questions revolving data science and python code
- Hosting daily meetings to keep track of the students to assure all work is being completed, taking accountability of the students and debugging code.

SKILLS

Python

SQL

RDMS

Flask

Git

AWS EC2

OpenCV, YOLO (Object Detection)

Tensorflow-Keras

NLP (Spacey)

Topic Modeling

Scikit-Learn

Jupyter Lab, Anaconda

HTML5/CSS3

Microsoft Excel

Database Schema/ER Diagrams

Active DoD Secret Clearance

EDUCATION

Data Science

Lambda School

Lambda School is a full-time (40 hrs/week), immersive Software Engineer & Computer Science Academy with a project-based curriculum where students pair program and complete weekly sprint challenges.