Daniel Groneberg

DATA SCIENTIST

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Skills

Technologies: Jupyter • GitHub • Git Bash • PostgreSQL • SQLite • Google Colab • EC2 • S3 • AWS BigQuerry • Tableau • RESTful APIs • R • RStudio • Tidyverse • CLI • ESRI ArcGIS • QGIS • wget • curl

Skills: Data Cleaning • Predictive Modeling • Supervised and Unsupervised Learning • Data Management Data Visualization • NLP • Image Classification • Data Collection

Python Libraries: Numpy • Pandas • Matplotlib • Seaborn • Sklearn • TensorFlow • Keras • Flask statsmodels • NLTK • spaCy • Streamlit • pmdarima • sktime • netCDF4 • BeautifulSoup • pathlib • Cartopy

Data Science Projects

Federal Reserve Interest Rates Forecast | Python, BeautifulSoup, NLTK, statsmodels, sklearn

- Developed a timeseries forecast for key economic metrics including Federal Reserve interest rates using Python.
- Scraped 50 years of Federal Reserve Beige Book transcripts using BeautifulSoup and applied natural language processing to engineer sentiment feature from text data.
- Used a Vector Autoregression model to forecast interest rates.

Timeseries Forecast of Soil Moisture | Python, netCDF4, statsmodels, sktime, sklearn

- Used netCDF4 to extract 50 years of .nc file data.
- Constructed datetime index using encoded day count data.
- Applied Augmented Dickey–Fuller test to check for seasonality.
- Created timeseries forecast models of soil moisture using SARIMA and Holt-Winters with a best $R2$ score of .76.

Predicting Subreddit from Sample Post | Python: NLTK, spacy, sklearn

- Developed a subreddit classification model using 7,155 posts scraped from r/Jobs and r/AntiWork.
- Examined how sentiment varied between the two subreddits when certain words like "manager" or "interview" were found in a post.
- Token vectorized the text data and experimented with logistic regression, kNN, random forest and gradient boosted models.
- Best performing model was a stacking classifier model using logistic regressor and random forest classifier as the base estimators with a gradient boosting classifier as the final estimator, which achieved a classification accuracy score of .85.

Continued:

Education

General Assembly   **September 2023**
Certificate: Data Science Immersive

Western Washington University, BS Geology   **December 2021**
Major: Geology

Experience

Jimmy Johns | Bike Delivery Driver   **January 2023 – June 2023**

- Assisted customers in understanding the menu, received orders over the phone and face-to-face.
- Consistently exceeded 30-minute delivery time goals.
- Developed and rode efficient delivery routes tailored for each batch of orders while under time pressure.
- Updated routes in real time if new construction or traffic conditions encountered.
- Communicated with coworkers to make routes as efficient as possible.

IATSE Local 15 | Stagehand   **September 2022 – June 2023**

- Built video walls, installed lighting fixtures, and followed instructions from a variety of teams.
- Worked efficiently in teams in order to meet road crew deadline requirements.

Washington Dept. of Ecology | Adult Litter Crew Member   **March 2022 – June 2022**

- Cleaned litter from dozens of miles of highway shoulders and ramps.
- Maintained constant situational awareness for personal and team safety; communicated risks.

Earth Solutions NW | Geotechnical Field Technician   **July 2022 – September 2022**

- Oversaw trench backfill and provided immediate recommendations to meet 95% soil compaction targets.
- Collected data using nuclear gauge and drafted daily technical reports outlining findings.
- Communicated with technical and non-technical audiences including project geologist and site foreman.

Boulder Organic Foods | Packaging Associate   **October 2016 – March 2017**

- Promoted to Second Shift lead within three months.
- Oversaw team of production floor workers.
- Reported hourly soup temperature measurements to ensure food safety.
- Logged results of X-ray machine tests and start and stop times of production runs.