

Spencer Buckner

Data Analyst

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TECHNICAL & SOFT SKILLS

Python | SQL | HTML | Tableau | Matplotlib | Seaborn | Git | GitHub | Pandas | NumPy | Scikit-Learn | Natural Language Processing | BeautifulSoup | TensorFlow | Keras | Supervised/Unsupervised Learning | Time Series Analysis | Data Visualization | Google Cloud | Forecasting/Budgeting/Valuation | Excel: VLOOKUP, Pivot Tables, Cond. Formatting | Intellectual Curiosity | Critical Thinking | Adaptability | Time Management

PROJECTS

EUR/USD Time Series Analysis

- Analyzed EUR/USD currency from 2005-2021 with several technical and fundamental economic features to discover insight into predicting next day bid close price
- Tuned final model hyperparameters on Long Short-Term Memory RNN produced R2 score of 0.99 on test data (0.83 on more future test data), and trading strategy following model predictions with risk to reward ratio yielded projected profit

UN Word Happiness Analysis

- Worked in a team of 3 with primary role to perform EDA and create regression/classification models
- Performed exploratory data analysis within Jupyter Notebooks and created Tableau dashboard for better understanding of relationships within data
- Created 8 models split within Regression and Classification utilizing Neural Networks and other supervised learning models for predictions

Classification Model using NLP for Subreddit Analysis

- Web scraped 3,000 observations from 2 similar subreddits using Pushshift API
- Conducted word analysis utilizing a Porter Stemmer to explore word frequencies within titles and self-texts
- Applied Logistic Regression, K Nearest Neighbors, Random Forest models with CountVectorizer/TfidfVectorizer and gridsearch for hyperparameter tuning

WORK EXPERIENCE

North American Insurance Services (formerly North American Life Plans)

June 2018 – April 2020

Commissions Manager

- Partnered with application development team using Odoo to implement and bring live new scalable ERP (Commissions engine) supporting 100% year over year growth
 - Functioned as subject-matter expert focusing on defining requirements, application functionality, project schedule, testing, and acceptance criteria
- Oversaw and trained 2 others for use on system completion including creation of manuals & procedures

Commissions Analyst

- Improved time efficiency of workload through introduction of more efficient procedures and reduced number of hours required to complete weekly assignments from 60 to 20
- Developed new commission data flow for 1500 agents from raw data provided by 25 insurance companies into a single format for better understanding and data analysis purposes

MMB Strategy

June 2016 – April 2017

Financial Analyst

- Transformed a cost center to a revenue builder by analyzing third party charges and brought MMB's largest monthly bill down by ~85% (\$100k to \$15k) while keeping corresponding monthly revenue of ~\$50k stable
- Performed month-end comparative analysis of financial performance to investigate and document KPI changes and strategize next steps

EDUCATION

General Assembly - Data Science Immersive

Jan 2022

Texas Tech University - Bachelor of Business Administration, Finance

May 2016