CHASE GOLDFELD
JUNIOR DATA SCIENTIST

Experience

Lambda School
Team Lead

Remote
Aug. 2020 to Current

- Mentored, led, and communicated with nine students through the data science curriculum.
- Hosted daily stand-ups for students on modules and weekly 1:1's.
- Improved students problem-solving skills by working through live code challenges.
- Reviewed each student's code and gave feedback on areas of improvement.
- Provided support through live debugging and Q&A's for all ends of the syllabus.

Projects

Groa
Groa uses machine learning to power an innovative recommendation engine that generates tailored movie suggestions to users based on their unique taste.

Tech Stack: Word2Vec | AWS | PostgreSQL | Google Analytics | FastAPI

- Solely responsible for engineering the Google Analytics API to collect, measure, and report key metrics to stakeholders with data visualizations.
- Used Slack, Trello, and Notion to collaborate remotely with a team of four Data Scientists and five Web Developers over the span of three weeks.
- Built the Groa API using the FastAPI web framework and serves recommendations using a Word2Vec Model.
- Implemented the Groa database with PostgreSQL on the AWS Relational Database Service.
- Utilized ElastiCache (running Redis) for caching and Elasticsearch service from AWS for searching.
- Successfully improved Groa: 66% Decreased Bounce Rate | Improved Model Response Time of 300% | Increased Average Session Duration Time of 665%
- URL | https://www.groa.us
- Data Science URL to Repo | https://github.com/Lambda-School-Labs/Groa-ds

Squall Hackathon
Squall is a mobile application that allows users in select cities to receive real-time extreme weather updates on their mobile phones via SMS.

Tech Stack: Heroku | SQLite | Twilio API

- Solely responsible for utilizing Twilio's API and developed the back end using Python to mine and wrangle data to trigger SMS notifications to the user.
- Collaborated remotely with a team of two Web Developers and one Data Scientist to build an MVP for a functional mobile application in 24 hours.
- Architected the relational database management system with SQLite.
- Deployed application using Heroku. URL | https://squallhackathon.herokuapp.com/
- Data Science URL to Repo | https://github.com/AuFeld/SquallHackathonBackend

Market Prediction
Market Prediction makes use of machine learning to construct and train a neural network to predict the movement of a stock with time-series data.

Tech Stack: TensorFlow | Scikit-learn | Beautiful Soup

Solely responsible for:
- Initiated a web-scrapper with Beautiful Soup that identified current S&P500 companies.
- Created an ETL process with Python and scrapped S&P500 company names to import and wrangle data from yfinance.
- Utilized Jupyter to construct the neural network architecture and trained the model by identifying days when the stock increased in price.
- Recorded a 52.1% accuracy score and outperformed the baseline of 51.7% by hyperparameter-tuning with a grid search: epochs | batch size | learn rate.
- Data Science URL to Repo | https://github.com/AuFeld/Strategy_Testing

Transfermarket
Transfermarket analyzes companies within a competitive niche market and a high barrier of entry. The EDA focuses on how well the companies invested in assets and their returns within a 365 day period.

Tech Stack: Jupyter | Scikit-learn | Matplotlib | Seaborn | Eli5

Solely responsible for:
- Applied Scikit-learn to construct a pipeline that trained and tested data with a Random Forest Classifier that identified the most important features that contributed to successful and unsuccessful assets.
- Created data visualizations with Matplotlib and Seaborn for storytelling that pinpointed different investment strategies based on the corporation's market capitalization value.
- Made use of Eli5 to display permutation importance based on the feature and its weight.
- Data Science URL to Repo | https://github.com/AuFeld/Transfermarket

Contact

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Skills

MACHINE LEARNING
Regression
Neural Networks
Natural Language Processing
Statistics

COMPUTER PROGRAMMING
Python
Jupyter
Linux
Git
SQL

DATA MANAGEMENT, ENGINEERING, & DEPLOYMENT
RDBMS: PostgreSQL | Heroku | SQLAlchemy
Non-Relational DBMS: MongoDB
DevOps: Docker
Frameworks: Flask | FastAPI

DATA VISUALIZATIONS
Google Analytics
Tableau
Seaborn
Matplotlib
Plotly

COMPUTER SCIENCE
Data Structures
Algorithms

Education

Lambda School
Data Science

Florida Atlantic University
BBA Business Management