Pradeep Adhokshaja

Data Scientist

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Summary

Data Science enthusiast with 3 years of experience in delivering impactful data science projects in the media domain.

Work experience

Data Scientist

2019 - Present

Equifax Analytics

- (Research Analytics)Recommendation system prototype that uses users' site behavioral data. The users were classified into clusters using K-Means clustering. For each cluster, we identified the most common articles that were read. Most popular unread articles from each cluster were then recommended to users.
 - Python (Sci-Kit Learn) for K-Means Clustering
 - Python Pandas for data manipulation
 - Jupyter Notebook for documenting and running each step
 - o Google Big Query + Google Analytics for data pull
 - o Google Slides to create a Proof of Concept Document for prospective clients
- Modifying in-house attribution models to account for the absence of user-level digital marketing data for a key channel by coordinating with clients
 - R (XGBoost) for implementing a Media Mix Modeling -like approach to calculate the importance of missing channel
 - Linux (Cron Job) to automate data pull, model runs and deploying results.
 - Google Slides to create a visual document highlighting the changes from the old approach to the new approach to be used by the client
- User & Content-Based Recommendation System for one of New Zealand's largest news website to increase user engagement and Average Time spent on site
 - o Tools/ Algorithms used
 - Python & word2vec embedding(Gensim): Used word2vec representations to uncover article to article similarities
 - Python & Google NLP: Used Google NLP to get user personality vectors for frequent users. These vectors were then used to find closest articles that represented the users' tastes
 - Python and sci-kit learn: For the rest of the users, clustering them based on topics read for the week. The clustering algorithm used was K-Means where K was chosen dynamically using a combination of business and mathematical rules. Clustering is done every 24 hours.
 - Python & Numpy: Used a combination of content scoring and behavioral scoring to get a final score between users and articles. Higher the scores, the more relevant the article is to the user's tastes.
 - Google VM instance: Google VM instances were used to run the algorithms with dynamic data and to generate the recommendations, which were then fed to the client's website using API calls.
 - Worked with the Product Engineering team to optimize for speed and scalability.
 - We were able to increase the average time on site by 15%.
- Media Optimization for one of Australia's largest FMCG (with revenue > \$AUD1B)
 - o Tools used
 - R (readxl & ggplot2)
 - R(xgboost)
 - Google Sheets for intermediate results



Portfolio & MOOCs

- Data Blog https://pradeepadhokshaja.wordpre ss.com/
- MOOCs
 - Machine Learning Stanford University
- Kaggle Portfolio https://www.kaggle.com/adhok93

Core Competencies

Business

- Deck Making
- Gathering business insights from data

Machine Learning/Statistics

- Clustering K-Means
- **Linear Models** Linear Regression , Logistic Regression

- Non-Linear Models: XGBoost
- Inferential Statistics ANOVA, Student's t-test, Z-test

Applications

- Google Slides
- Google Docs
- Google Data Studio

Programming languages

- R XGBoost, Caret, GGPLOT2, Shiny
- **Python** Sci-Kit Learn , Pandas , Numpy, Jupyter Notebook
- **SQL** BigQuery

- Google slides for final results
- We provided an optimized channel mix that takes into account previous patterns of expenditure and the COVID-19 scenarios.
- Maximize revenue with a minimal increase (~3%) in overall expenditure. We
 provided a scenario where Increase in revenue by \$AUD 30M was able to be realized,
 given the data.

Junior Data Scientist

2017 - 2018

Equifax Analytics

- Added features based on client requirements to Shiny based dashboards, that were used a prototype to our flagship product "Optimahub".
 - Shinydashboard
 - o R
- Helped a prominent Telecom Company based in Australia to optimize their social media efforts
 - Tools used: R (Big Query API and GGPLOT2)
 - We were able to identify channels & campaigns that worked well with social channels. Our recommendations enabled them to increase social media effectiveness by 20%
- End to end delivery of media mix modeling project for a prominent Australian Retail Company. The client was able to decrease significant online and offline spending while keeping revenue constant.
 - o Tools Used:
 - R (XGBoost Gradient Boosting Library to model cost against revenue)
 - R (GGPLOT2 for visualization)
 - Google Slides for Presentation
 - Media Mix Modeling results and recommendations enabled the client to identify areas of wastage, thereby reducing significant costs while retaining the revenue.
- Built a real-time Data Studio reporting dashboard displaying active users and topics across different regions and platforms.
 - o Tools Used
 - Google Data Studio (Dashboard)
 - Used the Google Analytics Real-Time API under R to fetch data in real-time
 - Linux Using Cron job to ensure automation
 - o This helped to streamline the reporting process of India's largest news aggregator
- Consolidated 100+ surveys in Excel format to a presentable format which was then presented through Data Studio Dashboards.
 - Tools used
 - R (readxl library to conduct ETL of Excel Sheet Data)
 - Data Studio + Big Query to visualize and store data respectively
 - It helped the marketing team of the client to visualize data much more effectively across geographies.

Education

Bachelor's of Technology National Institute of Technology- Karnataka