OSEPH TRAN

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SUMMARY

Process oriented data analyst experienced in cleaning, interpreting, and analyzing data to support RCTs in a developing nation while using a diverse set of tools to furnish data visualizations. summaries, and reports that support policy recommendations.

SKILLS

PYTHON: Pandas, Scikit-lean, Numpy, Seaborn, Stats_models

MACHINE LEARNING: Classification, regression, clustering, feature engineering/Selection

DATA VISULAIZATION: Tableau, Matplotlib

SOL: Joining, funnel analysis, sub-queries, temporary tables

EXCEL: pivot tables, v-lookup, formulas/functions

STATISTICAL ANALYSIS: A/B testing, ANOVA, chi-squared, t-test, ARIMA

PROJECTS

Music Recommender Mar. 2020 - Aug. 2020

- Sourced #nowplaying-rs dataset of 17m listening events to design a music recommender system
- Data was cleaned, and three separate files representing listening event log, associated hashtags, and sentiment scores were combined into one data frame
- Matrix factorization algorithms from ALS and lightfm are used to find latent features of the user/item matrix to make user predictions
- Precision @ k scores are compared between models with lightfm and ALS model scoring 0.125 and 0.068, respectively
- Both models suffer from the 'cold start' problem and could be improved by creating a hybrid model with meta-data

Sept. 2020 - Current

- Utilized Imperial College of London's loan default dataset of 150k samples and 755 features to develop loan prediction model
- Filter and ensemble feature selection methods are used in addition to dimensionality reduction to find an optimal set of features for the model
- Datasets from the results of the 3 methods are used for modeling
- Various classification algorithms are tested to find the optimal model and parameters via random_searchCV
- Models are benchmarked against an XGBoost classifier: Logistic Regression used along with ensemble methods.
- Best model was found to be XGBoost with SMOTE over-sampling yielding 0.677, 0.635 train and test ROC scores

EXPERIENCE

KH Global Health Consulting, Data Science Fellow,

Apr. 2000 - Oct. 2020 Provided data cleaning, management, and reporting services for health systems geographic data from Sierra Leone

- Led development of automated data file ingestion with python and glob; reduced load time from 1 week to several minutes
- Created and maintained Sankey diagrams to track importation and distribution of pharmaceutical products
- Ad hoc statistical analysis on health system data

Springboard, Data Science Fellow, Philadelphia, PA

Feb. 2020 - Feb. 2021

Jan. 2018 - Jan. 2019

Student in an online program consisting of 500+ hours of hands-on curriculum, with 1:1 industry expert mentor oversight, and completion of 2 in-depth capstone projects. Mastering skills in Python, SQL, data analysis, data visualization, hypothesis testing, and machine learning.

Freelance Consultant, Project Manager Coordinated with stakeholders to remodel and relaunch independent motel into a franchise destination

Negotiated deadlines and budgets with local property developers and tradesmen

- Synchronized expectations of all involved parties with weekly budget updates and progress tracking with Gantt chart
- Project completed two weeks ahead of schedule, 6% under budget

Robson Forensic, Mechanical Engineer Intern, Lancaster, PA

May 2016 - Aug. 2016

- Created finite element model to study stress and deflection as a result of wind interactions; hand calculations within 7 percent of computer model
- Responsible for design calculations and product development for intellectual property claims
- Field-guided inspections under expert oversight
- Produced mechanical drawings relating to intellectual property claims
- Assisted with evidence collection, documentation relating to forensic engineering field

Istar Productions, Audio EngineerBoston, MA / Las Vegas, NV

July 2005 - Mar. 2010

- Sought out, and hired professional musicians for live client performances
- Nurtured client relationships to identify desired texture and sound within specific genres
- Served as client relationship associate to ensure final product fit within the artist's musical vision
- Invested in client outreach, acquisitions led to 43% revenue increase for 2008
- Musical Director for client live performances and multi-state tours
- . Used Pro Tools HD and a wide array of VST plug-ins in conjunction with hardware outboard processing units to mix audio to the industry standard

EDUCATION

SUNY Maritime B.E Mechanical Engineering Sept. 2014 - May 2017

Lehigh Carbon Community College

Sept. 2010 - May 2013