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mindyng

I am passionate about combining descriptive analytics with results-oriented data problem-solving and bridging the knowledge gap across multiple disciplines and presenting insights/results to different audiences and teams.

Skills

PROJECT MANAGEMENT

Defining Project Success

Metrics Development

Defining KPI's

Team-Player

Insights to Stake

Python

DATA ENGINEERING (ELT)

Dataform

dbt

PostgreSQL

Google Cloud Platform

DATA WRANGLING

Data Cleaning

Data Integrity Checks / Assertions

STATISTICS

Descriptive Statistics

Inferential Analytics

A/B Testing

MODELS / MACHINE LEARNING

Logistic Regression Natural Language Processing (NLP)

BUSINESS ANALYTICS

Time Series Analysis

VISUALIZATION / BUSINESS INTELLIGENCE

Superset

Tableau

MINDY NG **DATA SCIENTIST**

Projects

Deployed Web App for Business Stakeholder

June 2021 to June 2021

-thiolder's question, translated it into a data question, performed ETL and created a web app with visualizations and analytic conclusion. Deployed web app with non-te-Streamlit's Sharing feature

Modern Analytics Data Stack Built from Scratch

Feb. 2021 to Feb. 2021

ining- data pipeline to perform ELT and BI visualization layer. Stack included open source: PostgreSQL DB, Meltano, dbt and Superset.

Music Streaming Service Churn Prediction

Jan. 2021 to Jan. 2021

543,705 samples of user data used to investigate what leads to churn and to predict its occurrence

odel (Logistic Regression) had f1-score of 0.5 for minority class

Model can be used to foresee which customers are likely to cancel their subscription so business can intervene to maintain high revenue stream

Healthcare Workers' Burnout Classifier Scraped 1879 tweets from nurses on the front lines in order to build a sentiment classifier to predict burnout Jan. 2021 to Jan. 2021

July 2019 to July 2019

lan. 2019 to lan. 2019

Palo Alto, CA

del (LSTM) had f1-score of .51 for minority class before deployment using Streamlit

Web application can be used for hospital directors to intervene on burnout to sustain healthcare workforce

Time Series Forecasting on Uber Eats' Vendors Dec. 2018 to Dec. 2018 Utilized 7.911 samples of date-stamped data and predicted which vendors were worth continuing business with based on ROI.

Trended each vendors' data with Facebook's Prophet. Trends performed over a span of 15 months. Data further broken down into weekly and daily trends. Resulting model performance based on 30-day horizon producing 0.01 - 0.03 RMSE.

Postmates New Market Analysis with Geospatial Heatmaps Analyzed 3-sided market to explore contributors to conversion and churn, used heatmaps to visualize supply and demand, determined health of market and addressed data integrity issues

Feb. 2017 to Apr. 2017 Sentiment Classification on Amazon Book Reviews

Gathered 243.269 Amazon book reviews through UCI's Machine Learning Repository in order to label customer reviews with three different sentiment scores to allow efficient product assessr

Built three different classification models- MN Naive Bayes, Decision Tree and Random Forest.

Out of the three, Random Forest was the best predictor due to having best model performance results with 0.72 Test Set Accuracy. Reclassifying Amazon product reviews prevents shopping paralysis leading to

Medicare Prescription Drugs Analysis Analyzed 25,209,130 samples of Medicare Part D Prescription use to determine how geography correlates with provider density, provider specialties and drug costs.

Plotly and Seaborn used to visualize number of providers across states, to geocode provider specialties and to examine differing degrees of drug cost variance across the U.S.

Cohort Analysis on Drugs for Cancer Patients

Examined 1,096 samples of de-identified cancer patient treatment data to predict best drug regimen for cancer clinic's cohort

Utilized paired t-test to determine if there was difference in efficacy between two different Breast Cancer drugs

Employment

Mercari US Sent 2022 to Oct 2022

Helped build out search team's new metrics table in Dataform to power dashboards and assess experiment results.
 Analyzed price elasticity between highest GMV/most searched for category groups to understand buyers' demand in relation to item price changes.

Mercari US Palo Alto, CA Aug. 2021 to Aug. 2022

Created Search RFM segmentation to personalize search.

Investigated query chaining to understand search engine performance as well as searchers' persistence.
 Performed user journey analysis across web to provide insights on platform's highest touch points for ML efforts to converge on.
 Analyzed navigation vs search activity to improve our UI, cover all our users' intent to drive north star metrics.
 Built statistical significance framework for experimentation at scale.

Forethought San Francisco, CA July 2020 to Sept. 2020

On the Customer Experience team, leading all technical requirements and touching all aspects of the business: Engineering, Product, Sales and Customer Success Implemented: State-of-the-art NLP models to help clients be geniuses at their job Involved: Data Engineering, Data Science, Machine Learning/Artificial Intelligence, Business Intelligence -- owning whole data pipeline Post-Sale

Queried MongoDB to create customer business rules.
 Designed Al Training datasets to feed into XLNet and BERT models using Jupyter Python noteb
 Analyzed trained models' performance to deploy best automated NLU models for clients.
 Verified live models' predictions were successful via API calls to clients' Salesforce Help Desks.

Verified live models' predictions were successful via API calls to clients' Salesforce Help Desks.
 Reduced client's SPAM from 64% coles sthan 1%.
 Helped save client >\$20,000 in human labor cost from Customer Support Agents manually labeling tickets.

· Completed data analysis that contributed to signing of >\$400,000 deal with Instacart

Immuno Concepts Sacramento, CA Iuly 2010 to Apr. 2019

Built linear regression models to determine whether or not products were drifting from quality.
 Tracked trends and outliers to make manufacturing recommendations to management to create efficiencies and increase profit margins.
 Created product performance reports to drive key business investments for following quarter.

University of California, Davis Davis, CA Jan. 2005 to Dec. 2008 • Through repeated experimentation explored sigma 70 subunit architecture to characterize macromolecular complexes involved in transcription of growth-related genes.

• Narrowed down which protein chain substitution in antibody-derived proteins fit best with research aims in pre-targeting radioimmunotherapy for Non-Hodgkin's Lymphoma.

Volunteering

CoronaWhy Machine Learning Engineer

Apr. 2020 to June 2020

lan. 2017 to Dec. 2017

Helping to fight against Coronavirus CoronaWhy is a globally distributed, volunteer-powered research organisation of 1000+ members. We're using DS and AI to assist the medical community and policy makers answer key questions related to COVID-19. It's supported by Google, Amazon, NASA and other companies.

l am embedded within the Vaccine/Therapeutics Task team, helping the Paper Study Classification group build baseline models to filter papers based on study design

Education

Springboard, Data Science Career Track

University of California, Davis Genetics Bachelor's of Science Sept. 2003 to Dec. 2007