Jackson Yang

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SKILLS

Tools: Python (Numpy, Pandas, Scikit-learn, Flask), SQL (MySQL, SQL Server), R (Tidyverse), Tableau, Git, Spark, Databricks Statistics: A/B Testing, Statistical Test (Z-test, T-test, F-test, Chi-square test), Time Series Analysis (ARIMA), Bayesian Inference Machine Learning: Classification, Regression, Clustering, NLP, PCA, Feature Engineering, Optimization, Model Deployment

EXPERIENCE

Avidian Technologies, a cutting edge CRM software company | Seattle, WA

Apr 2021 – May 2023

Data Scientist

- Reached a 5% increase in click-through rates for email marketing campaigns through the design and implementation of
 A/B tests on email elements such as the subject line, layout, personalization, and content
- Lowered customer response time by 30% using SQL to wrangle 18K+ subscription data from different databases
- Achieved a **15**% boost in demo sign-up rate using **Python** to wrangle 120K+ lead data from 2020 to 2022 and train a lead scoring model using XG Boost to generate prime prospect lead data for targeted outreach
- Collaborated with sales and engineering teams to identify users' usage tracking features and design a log database in SQL
- Improved customer satisfaction by analyzing support ticket using sentiment analysis and topic modeling in Python
- Reduced monthly churn rate to 3% by fitting a L1-logistic classifier on usage and ticket data to predict customer churn
- Increased website conversion rate to **5%** monthly by designing and creating seven **Tableau** dashboards to monitor web traffic data and customer journeys, improving the overall customer experience
- Improved data accessibility for users within the CRM software by building a text to SQL generation chatbot using GPT-4 and **Python**, which automates the generation of data tables and reports in response to user queries

Duke Fuqua, a leading business school | Durham, NC

Aug 2022 – May 2023

Data Analyst

- Gathered customer intelligence by writing complex queries in Brandwatch to scrape 500+ texts from websites monthly
- Achieved a **90%** reduction in time required for insight extraction by automating data collection from multiple social media using APIs, performing sentiment analysis, and building a chatbot with LangChain and GPT-3.5-Turbo in **Python**
- Identified customer preferences and trends by utilizing Spacy and NLTK in **Python** to build a text pre-processing pipeline, and employed NMF topic modeling to extract valuable insights from the text data

Purple Wave, a large online auction platform for hard assets | Manhattan, KS

Mar 2023 – May 2023

Data Scientist Student Consultant (Capstone)

- Extracted, transformed, and structured over 42M user data from six databases using DDL in MySQL
- Determined the North Star metric and key features for improvement by fitting a Random Forest model and identified territory-specific growth threshold metrics with a Decision Tree model in **Python**
- Detected fraudulent activities by using a combination of XGBoost model and k-means clustering on transaction data

Data on Demand, an end-to-end data solutions provider | Taipei, Taiwan

Dec 2020 - Mar 2021

Business Intelligence Analyst Intern

- Collaborated with stakeholders and team members to understand data structure and company's sales objectives
- Wrangled 24K+ insurance data from six tables using **SQL**, including data aggregation, feature selection etc.
- Built four MicroStrategy dashboards to evaluate loss ratio, sales, and profit margins by channel and product type
- Identified an abnormally high loss ratio and conducted various analysis to find the root causes

EDUCATION

Duke University | Durham, NC

May 2023

• M.S. in Business Analytics

GPA: 3.69/4.00

University of Washington | Seattle, WA

March 2022

• B.B.A in Information Systems and Supply Chain Management

GPA: 3.83/4.00