Thuan H Le

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SKILLS

Programming: Python (Base, Pandas, Numpy, Matplotlib, Scikit-Learn, Keras), SQL, R

Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, k-means, PCA, Association Rule Learning, Causal Impact Analysis, Deep Learning

Other: Statistics, Github, Data Visualisation, MS Office, Tableau, PowerBI, Jupyter Notebook, Snowflake

RELEVANT EXPERIENCE

Providence Health & Services **Remote**

Business Intelligence Analyst *July 2022 - Present*

Real Estate Operation & Strategy - Finance Team

- Collaborated with rotation analysts and core-leaders to provide significant analysis for leadership across multiple departments during the integration process from eBuilder to Genesis, increasing data integrity & accuracy by 20%.
- Extracted, load, and transform data from Snowflake cloud database and visualized budget, purchase orders, and cost variances between Genesis & eBuilder with SQL and PowerBI, reduced total variance of $2 million.
- Utilized Project Spend dashboard to submit tickets and escalate mismatch information to other financial analysts for further inspection & review, resolved more than 200 tickets.
- Assisted with the preparation of reports and surveys, enhancing my analytical skills.

Real Estate Operation & Strategy - Planning & Design Team

- Designed and developed an intuitive PowerBI dashboard to assist with acute-care bed counts and room capacity planning, facilitating data-driven decision-making.
- Provided insights on ministry capacity planning strategy, which contributed to 15% increase in licensed beds counts across the region.

PROJECTS

Predicting Customer Loyalty Using ML | Python Machine Learning

- Predicted missing loyalty score for 50% grocery's customers by testing three regression modeling approaches (Linear Regression, Decision Tree, and Random Forest) to find out the highest predictive accuracy determined by R-Squared and adjusted R-Squared.
- Identified input variable with the biggest impact on the prediction (distance from store) allowing for more relevant customer tracking and targeting.

Understanding Alcohol Product Relationships | Python Association Rules

- Applied Association Rules Learning, specifically Apriori algorithm to analyze the transactional relationship & dependencies between products in the alcohol section of a grocery store.
- Built a simple search tool for category managers to look up products in association table and utilize insights held within.

Accessing Campaign Performance | A/B Testing

- Applied Chi-Square Test for Independence to a grocery retail campaign to understand the difference in signup rates between cheap mailer and expensive mailer, helped stakeholder reduce mailing cost and improved ROI.
- Concluded the relationship between mailer and signup rate after Hypothesis test using Chi-Square Statistics & p-value.

Earthquake Tracking Dashboard | Tableau

- Built Tableau Dashboard to track global earthquake activities across a 30-day period.
- Recognized the top 10 largest earthquake, percentage of earthquake by location, and each location analysis.

Creating Image Search Engine | Deep Learning Convolutional Neural Network

- Built a Deep Learning image search engine that will help customers find similar products in the 300 women's shoes that are currently available to purchase.
- Implemented pre-trained VGG16 network with a final Global Average Pooling layer at the end of the architecture and plotted the 8 closest search results along with a cosine similarity score.

EDUCATION

Central Washington University **Des Moines, WA**

BS in IT & Administrative Management (STEM)