

Thuan H Le

Kent, WA | www.linkedin.com/in/lehthuan | (206) 697-7176 | huuthuanleus98@gmail.com | thuanhle.github.io

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

RELEVANT EXPERIENCE

Providence Health & Services

Seattle, WA

Business Intelligence Analyst

Real Estate Operation & Strategy - Finance Team

July 2023- Present

- Collaborated with rotation analysts and core-leaders to provide a dashboard to reconcile 1000+ data inconsistencies found during the migration process from eBuilder to Oracle.
- Conducted ETL on data from Snowflake Data Warehouse and visualized budget, purchase orders, and cost variances between Oracle & eBuilder with SQL and PowerBI, which reduced total variance of \$2 million.
- Coordinated with the finance team to ensure accurate invoice payments and reduced financial discrepancies, resolved more than 200 unpaid invoice tickets.

Real Estate Operation & Strategy - Planning & Design Team

July 2022- June 2023

- Designed and developed an intuitive Power BI dashboard to assist with acute-care bed counts and room capacity planning.
- Provided insights on ministry capacity planning strategy, which contributed to 15% increase in licensed bed counts across the region.
- Researched and presented a plan to senior leadership in adopting digital solutions to reduce unnecessary patient encounters and improve the quality of remote care.

PERSONAL PROJECTS

Predicting Customer Loyalty Using ML | Python Machine Learning

- Utilized partial data to predict missing loyalty score for grocery 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 variables 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 and 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..

Assessing 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, which helped reduce mailing cost and improved ROI.
- Concluded no meaningful relationship between mailer and signup rate after Hypothesis test using Chi-Square Statistics

Earthquake Tracking Dashboard | Tableau

- Built a Tableau dashboard to track global earthquake activity across a 30-day period.
- Recognized the top 10 largest earthquakes, earthquake distribution by region, and analysis of each location.

Creating Image Search Engine | Deep Learning Convolutional Neural Network

- Built a Deep Learning image search engine that will help find similar products out of 300 women's shoes styles that are currently available.
- 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

BS in IT & Administrative Management (STEM)

Des Moines, WA

March 2022