VINH TRAN

supaxone@yahoo.com ✉

www.linkedin.com/in/vinh-tran-33549b32 🔗

571 - 2760306 📞

https://vinhtrands.github.io 🐙

>> DATA SCIENCE | MACHINE LEARNING

MOTIVATION

I am passionate about solving business problems using Data Science & Machine Learning. I systematically & creatively use my skillset to add tangible value to the team, the business, and the end-user. I am constantly learning, and always looking to improve.

SKILLS & TOOLS

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

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

Other: Github, Tableau Data Visualization, MS Office, Jupyter Notebook

EXPERIENCE

Chief Engineer - Tower Companies
2020 - 2021

- Increase team's confidence working with sensitive equipment by updating SOP to two main flagship buildings.
- Implemented cross-training between buildings for team-building and emergency coverage.
- Assist multiple construction projects

Assistant Chief Engineer - Cushman & Wakefield
2019-2020

- I solved a condenser water loop mystery that saved the company over 50+ hours and headache for the management team.
- Create a new log that improves plant daily readings.

Engineer - JBG Smith
2012-2019

- I saved $50K+ with lock spring by thinking outside of the box.
- I saved downtime over 500% by repairing a heater circuit board during emergency heating season.
- Maintain equipment to a high standard with regular preventive maintenance.

PROJECTS

Creating An Image Search Engine Using Deep Learning

- Used deep learning CNN to create an image search engine by comparing cosine similarity between images of a client's online shoe store.

Understanding Alcohol Product Relationships Using Association Rule Learning

- Used Association Rule Learning, specifically Apriori to examine & analyze the strength of relationship between different products for potential bundle sales.

Earthquake Tracking Dashboard Using Tableau

- Used Tableau to create an interactive earthquake analysis dashboard.

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PROJECTS

Assessing Campaign Performance Using Chi-Square Test for Independence

- Ran A/B Test on campaign mailers to assess campaign performance.

Predicting Customer Loyalty Using ML

- Used Linear Regression, Decision Tree, and Random Forest to predict customer loyalty.

COURSES & CERTS

DATA SCIENCE INFINITY

Actionable Learnings: Extracting & manipulating data using SQL. Application of statistical concepts such as hypothesis tests for measuring the effect of AB Tests. Utilizing GitHub for version control, and collaboration. Using Python for data analysis, manipulation & visualization. Applying data preparation steps for ML including missing values, categorical variable encoding, outliers, feature scaling, feature selection & model validation. Applying Machine Learning algorithms for regression, classification, clustering, association rule learning, and causal impact analysis for measuring the impact of an event over time. Machine Learning pipelines to streamline the ML pre-processing & modelling phase. Deployment of a ML pipeline onto a live website using Flask & Heroku. Turning business problems into Data Science solutions.

COURSERA

Machine Learning
Stanford University

Tools for Data Science
IBM Skills Network

Python for Data Science, AI & Development
IBM Skills Network