Sutiwas Jitsopak

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EXPERIENCE

Research Assistant | Big Data Analytics
July 2024 - February 2025

- Designed and implemented comprehensive data cleansing and imputation methodologies using Python, create custom methods to handle missing values and maintain data integrity.
- Utilized R programming language for advanced statistical analysis, incorporating libraries for efficient data manipulation and clustering analysis.
- Spearheaded the development and implementation of an advanced clustering analysis framework using Affinity Propagation to analyze traffic patterns in large-scale datasets.
- Collaborate with the other teams to process .
- Successfully processed and analyzed four years of complex traffic factor data, identifying distinct behavioral patterns and trends.

Civil Engineer Intern | Quality Control
June 2020 - July 2020

Supalai Public Company Limited

- Implementing skills such as MS Office, Google Sheets, and Python to help forecast sales and construction rate matching with a certain rate which will help in decreasing time and cost to construct.
- Utilizing problem-solving skills and communication within every crucial process to manage the quality control process efficiently.
- Collaborate with the survey team to measure and record geological data from the construction site.
- Using Civil3D to download, process, and adjust survey information, and to import survey points into drawings.

PROJECTS

University Senior Project: Development of Activity Inference Model by Machine Learning Method

Chulalongkorn University

- Received, cleaned, and prepped data using Excel and R for descriptive analysis and classification process.
- Built data visualizations using Excel Pivot Table for descriptive analysis.
- Built classification models using Random Forest and Naive Bayes Classification algorithms to infer travel activity patterns from mobile phone signal data by training on validated travel survey data.
- Perform model performance analysis and evaluation across different activity types and identified key variables affecting prediction accuracy, precision, and sensitivity.

SKILLS

Programming languages :	• Python (Pandas, Numpy, scikit-learn, Matplotlib, Seaborn) • R (tidyverse, gapminder, ggpubr, FSA, BSDA, DescTools)
Database :	• SQLite
BI & Visualization Tools :	• Tableau, Looker Studio, MS Excel (Pivot Table, VLOOKUP, Conditional Formatting)
Additional Software :	• AutoCAD, Civil3D, SAP2000
Languages :	• Thai (Native Speaker), Professional English (TOEIC 910)

EDUCATION

Bachelor of Engineering (Civil Engineering)
July 2020 - June 2024

Chulalongkorn University, Bangkok, Thailand

GPAX: 2.89