Huy Nguyen

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SKILLS

Coding: Python (NumPy · Pandas · Scikit-learn) · R · SQL · Bash · SAS · Java
Data: Exploratory Data Analysis · Data Preprocessing · Sampling · Mining · Visualization
Tools: PySpark · Jupyter · Tableau · Git · Docker · PowerBI · KNIME
Languages: English (Fluent) · Vietnamese (Fluent)

WORK EXPERIENCE

Simon Fraser University, Biomedical Physiology and Kinesiology   **Burnaby, BC**
Data Research Analyst   Sep 2023 – Dec 2023

- Spearheaded performance analysis methods, including video analysis, and statistical models of soccer player tracking data in **R** and **Excel** to derive insights into player physiology and performance.
- Produced monthly performance reports, involving correlation analysis, to assess the relationship between team statistics and probability of winning matches.
- Collaborated with coaches and analysts for iterative modeling changes, leading to both the men's and women's teams winning their respective league titles.

Clutch Enterprise LLC   **Houston, TX**
Research Analyst   Mar 2022 – Mar 2023

- Conducted competitor analysis by gathering data on esports teams, tournaments, and players, identifying industry trends, and creating benchmark reports, contributing to a 20% increase in website traffic.
- Collected data from esports organizations, journalists, and official news websites, ensuring accurate and timely publication of esports articles on Instagram and Twitter.

PROJECTS

Motion Capture Analysis   GitHub

- Converted linear acceleration of sensor data to step frequency for gait analysis using **Python**.
- Applied Butterworth filter and Fast Fourier transform on datasets to minimize noise for model training.
- Trained and evaluated models across three body locations to predict step frequencies, achieving more than 80% model accuracy on two locations.

Living Lotus Chocolate: Digital Marketing Analysis

- Conducted thorough analysis of customer preferences and purchase patterns in **GA4** to identify opportunities for upselling and cross-selling complementary products.
- Utilized sales data and customer feedback to personalize recommendations and offers, enhancing the shopping experience and driving customer satisfaction.
- Presented recommendations to stakeholders, summarizing findings, outlining proposed strategies, and forecasting potential outcomes to guide decision-making and investment allocation in **Looker Studio**.

Car Park Occupancy Forecast

- Developed a **KNIME** pipeline to extract data from text files containing historical car park occupancy information.
- Blended data in **Tableau** to evaluate potential targets for visualization and correlation analysis.
- Constructed ARIMA models with lag and error coefficients from ACF and PACF plots to forecast values.

EDUCATION

Simon Fraser University   **Burnaby, BC**
BSc., Data Science   Aug 2019 – May 2024
Coursework: Database Systems · Linear Optimization · Intermediate Sampling & Experimental Design ·
Customer Analytics · Computational Data Science · Statistical Learning and Prediction · **Business** Analytics Project