

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 Intern

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 Intern

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](#) [Paper](#)

- 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, increasing newsletter open rate by 10%.
- 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 [Paper](#)

- 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