Huy Nguyen

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SKILLS

Coding: Python · NumPy · Pandas · PySpark · R · SQL · Bash · SAS · JSON
Data: Exploratory Data Analysis · Data Preprocessing · Sampling · Mining · Visualization
Tools: Jupyter · Grafana · Tableau · Hive · Airflow · Iceberg · Git · ClickHouse · DBeaver
Languages: English (Fluent) · Vietnamese (Fluent)

WORK EXPERIENCE

Data Analyst Collaborator   Jul 2024 – Present
VNGGames   *Ho Chi Minh, Vietnam*

- Streamlined data integration processes by developing and testing ETL layouts from Apache Hive and Iceberg sources, resulting in a 35% decrease in failed Airflow jobs while improving pipeline reliability.
- Built real-time monitoring systems integrating data from Clickhouse and TiDB databases to track key performance metrics and user experience issues across a unified gaming platform.
- Optimized SQL queries across executive dashboards on Tableau and Grafana, decreasing average load time by 40% and failed job extracts by 65%, ensuring consistent data availability for key stakeholders.
- Developed robust PySpark scripts automating the transformation of multi-format log files with validation checks, ensuring early detection of anomalies and preventing flawed data from impacting downstream analytics.
- Created and maintained comprehensive data dictionaries alongside training materials, improving cross-team collaboration and data literacy.

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

- 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.

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

- 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.

PROJECTS

Motion Capture Analysis   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%.

EDUCATION

Simon Fraser University   Aug 2019 – May 2024
BSc., Data Science   *Burnaby, BC*