

# Nguyen Duy Dat – Data Analyst Intern

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[Portfolio](#) | [Linkedin](#) | [Github](#)

## CAREER OBJECTIVE

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As an entry-level data enthusiast, I am eager to contribute my analytical skills to a dynamic team. I am committed to continuous learning and am excited to apply data-driven insights to real-world challenges. My goal is to grow professionally while making a meaningful impact in the field of data analysis.

## EDUCATION

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**University of Science - VNUHCM**

Oct 2021 - Present

*Bachelor of Science - Major: Mathematics Computer Science*

Specialization: *Data Science* - Current grade: 3.20/4.00

## SKILLS

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**Programming Languages:** Python, SQL, R, C/C++

**Frameworks/Libraries:**

- Data Extraction/Web Scraping: Selenium, BeautifulSoup4
- Data Analysis: Pandas, Numpy, SciPy, DAX
- Data Visualization: Matplotlib, Seaborn, Plotly, interactive dashboard using Power BI
- Machine Learning/AI: Scikit-learn, NLTK, Gensim
- Spreadsheet Tools: Excel, Google Sheet

**Query Language:** SQL (SQL Server, PostgreSQL)

**Database Management Systems:**

- Relational Databases: SQL Server, PostgreSQL
- NoSQL Databases: MongoDB (Document Database)
- Data Warehousing: Google BigQuery

**Mathematical Foundations:** Linear Algebra, Calculus, Statistics, Probability

**Soft skills:** Independently Working, Teamwork, Learning Agility, Problem-solving, Critical Thinking, Attention to Detail, Time Management.

## PROJECTS

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**Ecommerce Customer Churn Analysis (*Detail*)**

Feb 2025 – Mar 2025

*Conducted data analysis to identify key drivers of customer churn and developed data-driven insights for targeted retention strategies.*

- Extracted, cleaned, transformed, and analyzed customer data in BigQuery using SQL to calculate churn rates, analyze key customer metrics, and perform RFM segmentation.
- Identified key churn drivers: login device, city tier, warehouse proximity, payment mode, tenure, and customer satisfaction scores.
- Confirmed a strong connection between tenure and loyalty, as customer churn decreases consistently over time, reaching zero after 2 years, emphasizing the value of long-term customer relationships.
- Provided actionable recommendations: tailored retention strategies based on customer demographics, behavior, and engagement to reduce churn and improve customer lifetime value.

*Technical Skills:* SQL, BigQuery, Data Cleaning, Data Transformation, Exploratory Data Analysis (EDA), RFM Segmentation.

Developed a machine learning model to predict football player market values, enabling identification of valued talent for optimized team recruitment strategies.

- Scraped, cleaned, and integrated player data from Transfermarkt (BeautifulSoup) and FBRef, building a robust dataset for analysis.
- Leveraged EDA and KMeans clustering to uncover player archetypes and identified key performance indicators (KPIs) influencing market value.
- Developed and optimized regression models, achieving a Test MAE of 0.55 and Validation R<sup>2</sup> of 0.61 with a Gradient Boosting model.
- Provided a valuable analytical tool to assist football clubs in identifying valued players and informing strategic talent acquisition decisions.

Technical Skills: Python, Web Scraping (BeautifulSoup), Data Analysis, Machine Learning.

Addressed the lack of current salary information across data-related careers by analyzing trends from 2020-2024, enabling data-driven career and recruitment strategies.

- Processed, cleaned, and engineered features to create a high-quality dataset, rigorously addressing data quality considerations to ensure reliable analysis.
- Extracted and synthesized data-driven recommendations, highlighting key trends: high demand for Data Scientists, US dominance, influence of experience on salary and compensation varies greatly.
- Enabled data-driven decisions for job seekers and employers to optimize career paths and talent strategies.

Technical Skills: Python (Pandas, NumPy, Seaborn, Matplotlib, Plotly), Data Cleaning, Exploratory Data Analysis (EDA), Data Visualization, Data Wrangling.

Analyzed global electronic retailer time-series data to optimize revenue and improve operational efficiency.

- Analyzed 62,885 transactions from 15,267 customers using SQL Power BI to uncover insights into sales trends, customer segmentation, and evaluate store performance.
- Identified customers aged 60+ as the largest revenue-generating segment (44.12%) and the United States as the top-performing market.
- Recommended optimization strategies to increase revenue, improve profitability, and enhance customer loyalty.

Technical Skills: SQL, Power BI.

CERTIFICATE

HackerRank   SQL (Basic - Intermediate - Advanced) Certificate	Nov 2024
Coursera   Google Data Analytics Professional Certificate	Oct 2024
ETS   TOEIC (LR: 560/990 - SW: 270/400)	Jul 2024