

# PHUONG ANH PHAM

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Blog: <https://data-tes.com/> | Tableau: <https://public.tableau.com/app/profile/phuong.anh.pham6362/vizzes>

## PROFESSIONAL SUMMARY

I am a detail-oriented **Data Analyst** with a Master's degree in **Data Science**, and a four-year background in economics. Proven ability in **data analysis**, **statistical modeling**, **machine learning**, and **data visualization** by leveraging **advanced SQL**, **Python**, **Tableau**, **Power BI**, and **Microsoft Excel**. Demonstrated success in building **AI-driven automation tools**, optimizing **data pipelines**, and improving **decision-making** through **data storytelling**. Aspiring to learn new skills in the field, with evidence demonstrated through writing blog posts that share my understanding about data science and data analytics.

## EDUCATION

<b>University of Technology Sydney</b> Master of Data Science and Innovation ( <b>Distinction</b> ) Ranked Top 36 globally in Data Science (QS World University)	Feb 2023 – Dec 2024 <i>Sydney, Australia</i>
<b>Academy of Policy and Development</b> Bachelor of International Economics (Honor Programs) ( <b>High Distinction</b> ) GPA: 3.69/4 3-time recipient of the Faculty's Outstanding Student Scholarship	2018 – 2022 <i>Ha Noi, Vietnam</i>

## KEY SKILLS

Data Visualization	Tableau, Power BI, Excel, Plotly, Matplotlib, Seaborn
Programming & Database	SQL, Python, PostgreSQL, Snowflake, DBeaver
Machine Learning	Classification, Regression, Deep Learning
Big Data & Cloud Technologies	Apache Spark, Airflow, dbt Cloud, Microsoft Azure, Google Cloud Platform (GCP)
ETL & Data Pipelines	Data Wrangling, Feature Engineering, Web Scraping
Additional skills	Alteryx, Statistics, Probability

## CERTIFICATIONS

• Tableau Certified Data Analyst	Jan 2025
• Microsoft Certified: Power BI Data Analyst Associate	August 2025
• IBM Data Analyst Certificate	July 2025
• IBM Data Science Certificate	July 2025
• IBM NoSQL, Big Data, and Spark Foundations	July 2025

## WORK EXPERIENCE

<b>Data Scientist   Data Analyst (Team Project Work) – University of Technology Sydney</b> <b>A Deep Learning system for differential diagnosis of Melanoma</b> <a href="https://github.com/phuonganh-38/deep-learning-diagnosis-melanoma">https://github.com/phuonganh-38/deep-learning-diagnosis-melanoma</a> <ul style="list-style-type: none"><li>Developed an <b>AI tool</b> for <b>early melanoma detection</b> using deep learning and medical imaging.</li><li>Engineered <b>CNN models</b>, optimizing <b>medical image preprocessing</b> for improved accuracy.</li><li>Developed a user-friendly interface with <b>Streamlit</b> for real-time fraud risk assessment.</li><li><b>Impact:</b> Improved diagnostic accuracy and reduced physician workload.</li></ul>	Aug 2024 – Nov 2024
<b>Machine Learning for Transaction Analysis</b> <a href="https://github.com/phuonganh-38/transaction-analysis-ML">https://github.com/phuonganh-38/transaction-analysis-ML</a> <ul style="list-style-type: none"><li>Designed and deployed <b>fraud detection models</b> achieving <b>99.7% accuracy</b>, reducing false positives.</li><li>Cleaned and processed <b>4.2 million transactions</b> to optimize <b>data pipelines</b>.</li><li><b>Impact:</b> Enhanced fraud detection, reduced operational costs, and improved customer experience.</li></ul>	Apr 2024 – May 2024
<b>Business Analyst Intern – MISA JSC</b> <ul style="list-style-type: none"><li>Conducted <b>exploratory data analysis (EDA)</b> to identify trends, patterns, and business insights.</li><li>Developed dashboards in <b>Power BI</b> to track business KPIs and optimize decision-making.</li></ul>	Jan 2022 – June 2022

## PROJECTS

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### AutoCleanAI – AI-Powered Data Preprocessing Tool (2025)

GitHub: <https://github.com/phuonganh-38/AutoClean-tool> | App: <https://autoclean-tool.streamlit.app/>

- Developed an **AI tool**, automating tasks like missing value imputation, outlier removal, and duplicate handling.
- Implemented **Isolation Forest** for advanced anomaly detection, improving data quality.
- **Impact: Reduced data preprocessing time by 80%**, increasing workflow efficiency for analysts.

Tech Stack: Python, Streamlit, Isolation Forest, Scikit-learn, Pandas, Plotly

### ELT Data Pipeline for Airbnb Analytics (2024)

GitHub: <https://github.com/phuonganh-38/airbnb-elt-pipeline>

- Designed and deployed an **ELT pipeline** processing **1TB+ of data** using **Apache Spark, dbt Cloud, and Airflow**.
- Optimized **data transformation and orchestration**, reducing processing time by **40%**.
- **Impact: Improved real-time analytics**, improving insights into property market trends.

Tech Stack: Apache Spark, dbt Cloud, PostgreSQL, Airflow, Google Cloud Platform (GCP), DBeaver, Python

### Data Processing and Analysis of New York taxi (2024)

GitHub: <https://github.com/phuonganh-38/nyc-taxi-data-analysis>

- Processed **800 million rows** of taxi trip data, optimizing data pipelines using **Azure, Databricks, Apache Spark**.
- **Impact: Achieved 45% faster processing**, uncovering valuable insights into ridership patterns.

### Rental Market Trend Analysis (2024)

GitHub: [https://github.com/phuonganh-38/rental\\_market\\_trend\\_analysis](https://github.com/phuonganh-38/rental_market_trend_analysis)

- Led end-to-end analysis of rental market trends by scraping data from Domain website and performing EDA with SQL and Python.
- Utilized data visualization techniques to present findings, improving stakeholders' ability to make data-driven decisions and adjust to market changes quickly.

Tech Stack: Python, SQL, Pandas, Matplotlib, Seaborn, Selenium

### Global Mental Health Dashboard (2024)

Tableau: <https://tabsoft.co/4iDKnd9>

- Designed an **interactive Tableau dashboard** visualizing **global mental health trends** with **1,000+ views**.
- Applied **data storytelling** to provide actionable insights into mental health issues in Australia.