

# PHAM MINH HIEN

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## SUMMARY

Fueling my passion for data and development, I'm eager to create seamless digital experiences through innovative web applications and insightful analytics that cater to user demands. I'm driven to push the boundaries of technology to solve any upcoming challenge.

## EDUCATION

### UEH University - College of Technology and Design

08.2021 - 08.2025

Bachelor of Science - Data Science

GPA: 3.74/4

Relevant course work: Introduction to Database Management System, Data Analysis Programming, Machine Learning - Gain foundational knowledge of data analysis, problem - solving, database management and machine learning concepts.

## WORK EXPERIENCE

### Bosch Vietnam, Digital Transformation Support - Internship

Long Thanh, Dong Nai, 05.2024 - Present

- Design and implement dashboards using **Python**, **SQL** and **Power BI** to meet departmental requirements, enhancing supervision and decision-making in the manufacturing process of pushbelt elements.
- Develop web applications using **Power Apps** based on departmental needs, improving data management for Bosch TGA's Locker Storage.
- Create web forms with **Manual Master** to support the factory's digitalization efforts, transitioning from paper-based data management to a server-based system.

## PROJECTS

### NorthWind Sales Power BI Visualization

04.2024

Objective: Visualize the business operations of NorthWind Company, focusing on Orders, Products, Customers, Employees, Suppliers, and Delivery.

Techniques:

- **Data Modeling:** Extract and clean raw data, structure it into dimension tables and fact tables, and then create a relational schema using star/snowflake schema modeling.
- **Data Visualization:** Utilize **Power BI built-in charts, DAX, measures, calculated table and parameters** to custom visualization and present insightful business data.

### Detect Spam Message Using SVM Model

12.2023

Objective: Utilize **SVM Model** to detect spam messages.

Techniques:

- **Text Preprocessing:** Implement text preprocessing techniques including stopword removal, lemmatization, vectorization to prepare text data for model training.
- **Model Training:** Utilize **Support Vector Machine (SVM)** to train the processed texts for accurate spam prediction.
- **GUI Development:** Create an interactive user interface using **DearPyGui framework**, enabling users to classify messages as spam or non-spam efficiently.

### Diamond Analysis and Price Prediction

11.2023

Objective: Analyze variable relationships in the diamond dataset and forecast diamond prices.

Techniques:

- **Data Cleaning:** Address duplicates and missing values to ensure dataset integrity.
- **Hypothesis Testing and Exploratory Data Analysis:** Examine variable relationships through rigorous testing and exploratory analysis.
- **Prediction:** Utilize **Random Forest** for price prediction modeling.

This project enhances comprehension of diamond attributes implying price trends in the market, contributing to a comprehensive understanding of factors impacting diamond valuation.

### Build Database System for a hypothetical local fruit shop

06.2023

Objective: Build database management from scratch and extract store's information for business analysis.

Technology: **Microsoft SQL Server**.

- Build **ERD Model**.
- Use data definition language, data manipulation language, structured query language, and data control language to extract meaningful information about customers, sales, staffs, and store products.
- Implement **stored procedures, function, and trigger** to accelerate the processing speed of the database management system.

## SKILLS

### Technical skill

**Programming language:** Python (*Numpy, Matplotlib, Pandas, Sklearn library*)

**Web-Apps Development:** JavaScript (*Basic Syntax, Functions, Error Handling*), HTML (*Semantic, Forms, Events*), CSS (*Selector, Layouts, Images*), Power Apps (*Form Control, Power Apps Formulas, Canvas Editing*)

**Data Analysis:** Microsoft Excel, Microsoft Server SQL, Microsoft Power BI (*DAX, Power Query, Data Modeling*)

**Office skills:** Microsoft Office Tools (SharePoint, Word, PowerPoint,...)

### Soft skill

Strong written and verbal communication skills, Self - directed learner, Detail-oriented, Problem - solving, Teamwork and collaboration

### Language

IELTS 7.0 Certificate, Chinese HSK 3