

# Ung Hoang Long

---

Viet Nam National University, Ho Chi Minh city • Thu Duc City • Binh Duong, Viet Nam

✉ [23520892@gm.uit.edu.vn](mailto:23520892@gm.uit.edu.vn) in [@LongUngHoang](https://www.linkedin.com/in/LongUngHoang)  [github.com/UngHoangLong](https://github.com/UngHoangLong)

---

## Objective

Aspiring Data Scientist with a strong passion for research and continuous self-improvement. Eager to explore advanced data science techniques, contribute to research projects, and develop expertise in data-driven problem-solving. Seeking opportunities to enhance analytical thinking and collaboration skills in a research-oriented environment.

---

## Education

University of Information Technology

*Bachelor's in Data Science*

Ho Chi Minh City,  
Vietnam

Expected Graduation:  
2027

- GPA: 8.7 / 10.0
- 

## Certificates

- **Machine Learning Specialization**, Stanford University
  - **Data Analysis with Python**, IBM
  - **Data Visualization with Python**, IBM
  - **TOEIC Certification**, ETS
  - **DeepLearning.AI Data Engineering Professional Certificate**, Amazon Web Services – *In Progress*
- 

## Skills

- **Programming:** Comfortable with Python and SQL (Able to write complex queries, use stored procedures, and work with triggers at a fundamental level).
- **Machine Learning & AI:** Familiar with building ML models using NumPy and scikit-learn, training basic neural networks (TensorFlow), and understanding decision trees, clustering, anomaly detection, and recommender systems.
- **Data Analysis:** Able to clean and preprocess data, perform exploratory data analysis (Pandas, NumPy, SciPy), manipulate dataframes, and apply basic regression models.
- **Data Visualization:** Experience in creating visualizations (Matplotlib, Seaborn, Folium), building basic interactive dashboards (Dash, Plotly).

- **Data Engineering (Learning in Progress):** Gaining foundational knowledge in data modeling, transformation, orchestration, warehousing, and cloud computing.
  - **Cloud & Big Data (Learning in Progress):** Exploring AWS cloud fundamentals, Infrastructure as Code (IaC), and cloud networking.
  - **Big Data Processing (Learning in Progress):** Learning PySpark, batch & streaming ingestion.
  - **Research & Reading:** Solid ability to read and understand academic papers in English, efficiently search, retrieve, and organize research materials; improving analytical skills.
  - **English Skills:** - Listening & Reading: TOEIC 710 - Speaking & Writing: TOEIC 270 - IELTS Mock Test: 6.0
- 

## Projects

### Black-Scholes Model for Option Pricing

2024

*Mathematical explanation of the Black-Scholes model in financial derivatives pricing*

- **Technologies:** Python, NumPy, SciPy, Matplotlib, Stochastic Calculus, Advanced Probability Statistics.
- **Key Contributions:** - Analyzed the mathematical foundation of the Black-Scholes model, including Brownian motion, Ito's lemma, and stochastic differential equations. - Implemented simulations and visualizations to demonstrate option pricing behavior.
- **GitHub:** [Black-Scholes Model](#)

### Analyzing the Impact of Recession on Automobile Sales

2024

*Developed an end-to-end data visualization project to analyze historical automobile sales trends during economic recessions*

- **Technologies:** Python, Pandas, Matplotlib, Seaborn, Plotly, Dash.
- **Key Contributions:** - Utilized Matplotlib, Seaborn, and Folium to create insightful visualizations, including line charts, bubble plots, and scatter plots. - Developed a data visualization dashboard with Plotly - Analyzed the relationship between economic factors (GDP, unemployment rate, consumer confidence) and automobile sales. - Investigated how advertising expenditure and seasonality influenced sales performance.
- **GitHub:** [Automobile Sales Visualization](#)