## **NGUYEN THAI BAO** – Data Engineer

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### **EDUCATION**

### University of Science, Vietnam National University Ho Chi Minh City

Bachelor of Science in Computer Science, High-Quality Program

October 2020 – Present (Expected graduation date)

GPA: 2.94

- Achivement:
  - Engaged in scientific inquiry involving medical datasets.
  - Score of 9 in Probability Statistics.
  - Score of 8.5 in Data Mining.

# **SKILLS**

Technical: Python, PostgreSQL, Pytorch, MLflow, Apache Spark, Apache Hadoop, Apache Airflow, Apache Kafka,

Apache Flink, Selenium, BeautifulSoup, Power BI.

Skills: Machine Learning, Data Processing, Data Visualization, Data Warehouse, Data Lake, Data Analysis, ETL

Processes, AWS (Familiar with basic concepts).

Language: English

Listening: IntermediateWriting: Intermediate

Reading: GoodSpeaking: Basic

#### **PROJECTS**

# **Prostate Cancer Segmentation from pathology images**

July 2023 – December 2023

- Programming language: Python
- Frameworks: Pytorch, Albumentations, Jupyter Notebook, Numpy, Math, FlashAPI.
- Github: baobao1911/Prostate-Cancer-Segmentation-from-pathology-images
- Description: This project endeavors to develop an advanced AI model for the automated identification of
  malignant regions within prostate cancer pathology images sourced from the prestigious MICCAI Gleason
  Grading Challenge. The model undertakes comprehensive enhancements to the PSPNet architecture,
  including meticulous preprocessing of H&E images, meticulous data balancing procedures, precise finetuning of the pre-existing ResNet backbone, and systematic modular improvements. The overarching

objective is to achieve a notable enhancement in segmentation accuracy, thereby facilitating more precise diagnostic insights and refined treatment planning protocols.

 Tasks: Preprocessing H&E image data, data balancing, fine-tuning pre-trained ResNet backbone, implementing modular improvements based on PSPNet, training and testing, deploying model with FlaskAPI.

## **Features storage**

February 2024 – March 2024

• Programming language: Python

• Frameworks: Apache Airflow, PostgreSQL, Apache kafka, Apache Flink.

• Github: baobao1911/Features storage

Description: This project is focused on the conception and implementation of an advanced feature store
system meticulously tailored for the management and provisioning of trip records sourced from the
Yellow Taxi fleets of New York City. The system is architected to accommodate the distinctive
requirements inherent in each data stream, thereby ensuring unparalleled performance and operational
efficiency. Through the adept utilization of leading-edge technologies and platforms including PySpark,
PostgreSQL, Flink, Kafka, DBT, and Airflow, the endeavor is poised to deliver a resilient and dependable
solution to meet the exigencies of the domain.

# Web scraping and Visualize

February 2023 – April 2023

• Programming language: Python

• Frameworks: Selenium, Pandas, Matplotlib, Jupyter Notebook.

• Github: baobao1911/Web-Scraping-and-Analysts

• Team size: 3

- Description: This project entails the utilization of the Selenium library to systematically extract data from a
  designated web page (WhoScored.com). Subsequently, the acquired data is meticulously processed to
  conform to an appropriate format conducive to visualization, employing the Matplotlib library. The
  outcome comprises a comprehensive graph accompanied by insightful annotations elucidating pertinent
  aspects of the extracted data.
- Tasks: Data crawling from website utilizing Selenium and analysis of two specific aspects.

# **CERTIFICATIONS**

 Data Visualization University of Illinois at Urbana-Champaign coursera.org/share April 2023

• Text Retrieval and Search Engines University of Illinois at UrbanaChampaign coursera.org/share

May 2023