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Github | Linkedin

1. Goals and objectives

Big data and AI are my interests. Over the next three years, my ambition is to launch my career as a data engineer while delving deeper into the field of big data and AI. My goal is to master the complexities of data engineering, while also expanding my knowledge and skills in AI and ML. With dedication and ongoing learning, I expect to transition into roles like MLE or MLOps, where I can leverage my expertise to build and deploy models in real-life pipelines.

2. Education

VNU-HCM University of Science

2021 – 2025 (Expected Graduation)

Bachelor of Data Science

GPA: 3.47/4.0

3. Projects

Data Engineering:

ETL Data Pipeline For Trip Record

Oct - Dec. 2023

- Motivation: Build an ELT data pipeline with the TLC Trip Record Data. Helping taxi businesses acquire sufficiently good and clean data before conducting statistical analysis or building models for prediction, thus deriving insights to enhance taxi services based on observed patterns within the data.
- Github: NYC-TripRecord with #Demo
- Tasks:
 - Ingest data into the database.
 - Develop end-to-end data platform by building ETL pipeline, batch processing with Apache Spark.
 - Transfer data to a data warehouse.
 - Make some analysts and demo data with a web app written by Streamlit.
- Technologies: Docker, Dagster, Apache Spark, MySQL, MinIO, PostgreSQL, Streamlit.

Al / Machine Learning:

Visual Question Answering in Medical VQA-RAD data

June – July. 2024

- Motivation: Developing a medical VQA system aims to enhance diagnostic accuracy and efficiency by providing instant, precise answers to questions based on medical images, which supports healthcare
- Github: <u>Project-NLP-VQA</u>
- Task:
 - Applied MUMC (Multi-Modal Utility Contrastive Learning) for VQA-Rad. Focusing on how it approaches understanding relationships between different modalities during pre-training, MUMC aims to unify different contrastive learning approaches across modalities
 - Read paper, explore contrastive learning, train both pre-training phase (as Image Captioning) and fine tuning phase (as VQA).
- Technologies: Pytorch, NLP knowledge

House Price Prediction

May - June. 2023

- Github: <u>House-Price-Prediction</u>
- Tasks:
 - Using beautifulSoup and regex to crawl data on web
 - EDA, cleaning and preprocessing data (using MICE, one-hot encoding, scaling, remove outlier)
 - Build and compare to choose best model for predict house price (Linear Regression, Ridge Regression, Lasso Regression, Decision Tree, Random Forest, CatBoost, XGBoost, Stacking model)
- Technologies: beautifulSoup, regex, scikit-learn, matplotlib, streamlit



4. Skills & Coursework

- Programming Languages: Python, C/C++, R, Matlab.
- **My tech stack:** Basic Python libraries (like Numpy, Pandas, Matplotlib, Seaborn, Streamlit ...), Scikit-learn, Pytorch, Spark, Dagster, dbt, MinIO, Docker, Linux (Ubuntu).
- Database: SQL (Microsoft SQL Server, PostgreSQL, MySQL), NoSQL (MongoDB).
- Relevant School Coursework: DSA, OOP, Databases, Database Management Systems, Intro to AI, Data Mining, Machine Learning, Deep Learning, Pattern Recognition, NLP, BigData.
- Languages: English (with Level B2)

5. Activities & Certifications

- Fundamental Data Engineering
- VIASM The Summer School In Data Science 2023
- Google Cloud Skills Boost
- HackerRank SQL (Basic to Advanced) Skills Certifications
- First Prize Excellent Student At Math City Level

at #AIDE Institute at #VNU-HCMUS at #QuanQuanGCP #HackerRank

#Mar 2021