TRẦN XUÂN LỘC

Data Engineer Fresher

Ho Chi Minh City   ✉ xuanloc2018@gmail.com   ☎ 0976248973   in Loc Tran   Ⓗ Loc Tran   ◯ Loc Tran

Education

The Bachelor of Science, *University of Science* 11/2018
- **GPA**: 8.86/10
- **Achievement**:
  - Published two papers on ACIIDS 2022 and KSEM 2022
  - Encouraging scholarships: 2018, 2019, 2022
  - Academic and scientific research merit scholarship: 2022

Publications

Integrating Quaternion Graph Convolution Networks with Tucker Decomposition for Link Prediction on Knowledge Graphs, *Thanh Le, Chi Tran, Loc Tran and Bac Le* 🔗 19/07/2022

A Novel Integrating Approach Between Graph Neural Networks and Complex Representation for Link Prediction on Knowledge Graphs, *Thanh Le, Loc Tran and Bac Le* 28/11/2022

Research Experience

Research Assistant, *Computer Science Laboratory, HCMUS* 06/2021 – 06/2022
- **Responsibilities**
  - Study the advantages and disadvantages of different approaches
  - Run test and experiment, fine-tuning model
  - Conduct complex analysis about the Deep Learning architecture
- **Technologies**: Pytorch, GCNs, GAT, CNNs, Geometric space

Technique Skills

Have a basic knowledge about:
- *OOP and Data Structure.*
- *Machine Learning and Deep Learning.*
- *Git, Docker and Anaconda.*

Web Scrapping
- *Extract raw data using BeautifulSoup, Selenium, and Regex.*
- *Collect data using API and clicks from website by using Divolte collector.*

Perform ETL and EDA on data
- *Python, MSSQL server, Spark and OpenCV.*

Streaming data using Kafka

Interpret trends and patterns
- *Python, Tableau, and CanvasJS.*

Real time analysis with Flink

Programming languages
- *Python, C++, Bash script.*
- *Java and Scala.*

Design data warehouse
- *Spark, CouchDB and MSSQL Server*

Design machine learning model
- *Pytorch and Tensorflow.*

Perform statistical analysis and fine-tuning

Run machine learning tests and experiments

Research and implement appropriate ML algorithms.

Projects

Spark Machine Learning and Coding 🔗
Conduct EDA and ETL using SparkSQL on Python.
Using SparkML library to conduct classfication algorithms.
Analyze data by SQL and solving problems using SparkSQL on Python. 🔗
Role: Developer.
Framework: Java, Hadoop, Python, Spark, Jupyter Notebook

Weather Prediction 🔗
Crawling data from API.
Performing EDA, data cleaning, then solving the unbalanced problem.
Using by Multi-layer Perceptron and Support Vector Machine model to predict weather.
Role: Developer.
Framework: Jupyter Notebook, Python

House Price Analysis 🔗
Perform data cleaning by insight from EDA.
Analyzing and visualizing data on Python.
Construct the architecture of model based on self-research.
Obtain the 125th position on Kaggle compettion.
Role: Leader, Developer
Framework: Jupyter Notebook, Python

StackOverFlow Exploration 🔗
Perform EDA and ETL on StackOverFlow's survey data using Pandas on Python.
Analyzing and visualize data for answering the target questions using Python.
Role: Developer.
Framework: Jupyter Notebook, Python

Data Analyst with Tableau and MSSQL server 🔗
Perform EDA and ETL using SQL on MSSQL server with Covid data.
Visualize Covid data by using Tableau.
Perform data cleaning by SQL on MSSQL server with Nashville Housing Data.
Role: Developer.
Framework: Excel, MSSQL Server, Tableau, Python, Jupyter Notebook

Covid Analysis with Spark and NodeJS
Sign in with Firebase
Search covid information by place using spark.
Use Kafka to steam data to web.
Plot analysis results as images then uploading to HTML through out API.
Framework: NodeJS, Scala, Python, Kafka, Spark, FireBase, Flask API

Soft Skills

- Good Communication
- Teamwork
- Problem solving
- Have ability to explore and research problem
- Time management
- Leadership

Languages

English (IELTS 5.5)

Interests

Camping, Reading, Gaming, Badminton.