TRAN XUAN LOC

Data Engineer Fresher

Binh Tan, Ho Chi Minh City | xuanloc2018@gmail.com | 0976248973 | 16/09/2000

Loc Tran | Loc Tran | Loc Tran | Loc Tran

Education

07/2018 – present

The Bachelor of Science, *University of Science* — Ho Chi Minh, VietNam

- **GPA**: 3.70
- **Achievement**:
  - Submit two papers in the Knowledge Graph field.

Work Experience

06/2021 – 06/2022

Research Assisstant, *Computer Science Laboratory, HCMUS*

- **Responsibilities**
  - Read and summarize all research directions in Knowledge Graph.
  - Report and discuss the related articles with our team each week.
  - Study the advantages and disadvantages of existing methods for further improvement.
  - Integrating the advantages and analyzing drawbacks of different techniques to propose a new method.
- **Technologies**:
  - Pytorch, GCNs, GAT, Knowledge Graph, CNNs, Quaternion, Tensor Decomposition.

Projects

01/2021

Age and Gender Prediction

- Using Adience dataset and implementing the Alexnet architecture to predict age and gender.
- Techiniques: BN, Dropout, Data Augmentation, Facial Alignment and Facial Landmark Detection.

05/2021

Spark and Hadoop Coding

- Using SparkSQL to query and answer the questions.
- Implement MapReduce for each problem.
- Libraries: PySpark, SparkSQL, Hadoop.

05/2021

Spark Machine Learning

- Load data by spark, and preprocess them by sparkSQL.
- Using SparkML library to conduct classfication algorithms including NaiveBayes, Decision Tree, Logistic Regression, LinearSVC.
- Libraries: SparkML, SparkSQL.

08/2021

Food Texture Analysis

- Explore and preprocess data based on its distribution.
- Using PCA to transform data into low-dimensional space.
- Discover the meaning of value in each eigenvector(s) by visualizing them.
- Libraries: Pandas, Numpy.

08/2021 **Weather Prediction**
- Crawl data From API provided by Ambee with self-defined format.
- Explore and preprocess data, then solve the unbalanced problem by sampling techniques.
- Predict weather by MLP and SVM model.
- Libraries: Pandas, Scikit-learn, Numpy.

12/2021 **House Price Analysis**
- Explore the features, then preprocess step by step.
- Extracting and visualizing data to answer the questions.
- Predict new house price by stacking models.
- Libraries: Pandas, Scikit-learn, Numpy, Xgbootst.

05/2022 **Emotion Recognition**
- Using FER2013 dataset and implementing the VGG-like and VGG-19 network for recognize emotions.
- Techiniques: AMP, Adam8bit, HaarCasscade, Data Augmentation.
- Real time testing: Camera, video, static images.
- Libraries: Pytorch, Keras.

Technique Skills

Python ●●●●○
Numpy, Pandas, SciKit-Learn, Pytorch

Others ●●●●○
Anaconda, Git, SSH, Docker

Data ingestion ●●○○○
Divolte collector, API crawl, ELK

Transfer data ●●○○○
Spark, Kafka

ETL transform ●●●○○
OpenCV, Spark, python

Data lake ●●●○○
Hadoop, CouchDB

Data warehouse, mart ●●○○○
CouchDB, MSSQL Server.

Distributed query ●●●○○
SparkSQL

AI ●●●○○
Keras, Pytorch, SparkML

Publications

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

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

Languages

English (IELTS 5.5)

Interests

Camping, Reading, Gaming, Badminton.