Ta Anh Tuan

AI Engineering Intern

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EDUCATION

Aug 2016 - Present

Post and Telecommunication Institute of Technology
Major: Software Engineering
Year: Senior student

OBJECTIVE

Programming is my true passion in life, especially Artificial intelligence(AI) which is one of the tech fields of the future. I realize it is of paramount importance to deeply integrate AI technology in e-commercial products nowaday. That idea encourages me to want to learn more about AI knowledge and its industry applications. Working in a tech company could help me to acquire a significant amount of programming skills, comprehensive understanding of AI systems, and some skills needed in workplace like teamwork, communication, self-learning, problem-solving.

CERTIFICATIONS

2020 IELTS Certificate with score 6.5 issued by IDP

WORK EXPERIENCE

Oct 2016 - January 2017

PortalBeanz
IOS intern
Recognition and Gains:
- Learned some knowledge about programming skills, and languages like C++, Objective-C

Personal Projects

Developed several projects including celebrity face recognition, traffic sign recognition, and human activity recognition.

1. **Celebrity face recognition using Naive Bayes** (Computer Vision)

Train Set: labeled images of 3 different persons / classes(donald trump, mohamed salah, leonardo dicaprio)
Testing method: allow users to upload images from an upload window and the system will make predictions for these uploaded images.
Techniques: image preprocessing techniques such as histogram of equalization, converting to grayscale, machine learning classifier (Naive Bayes). and Histogram of Oriented Gradients.(HOG).

2. **Traffic sign recognition** (Computer Vision)

Train Set: dataset of images with 42 folders for 42 types of traffic signs.
Testing method: make predictions for the image frames captured by a live camera

Techniques: image preprocessing techniques such as histogram of equalization, converting to grayscale, Convolutional neural network(CNN) , Activation function(softmax), Data Augmentation.
3. **Human Activity Recognition**(time-series data)
Train Set:Train Set: csv data consists of 6 different activities (list the name here) with 7352 samples. Each sample has 560 features.
Testing method: predict the activities from a given csv file.
Techniques: Long Short Term Memory(LSTM), Activation function(linear).
4. **Celebrity face recognition using CNN model** (Computer Vision)
Train Set: labeled images of 5 different persons / classes(1.13 GB data of images)
Testing method: make predictions for the image frames captured by a live camera
:Techniques: Face Detection, data augmentation, DBSCAN, CNN model: activation function(softmax), optimizer(adam), loss function(categorical cross entropy).

3/2020 - 6/2020	**HBLAB** AI Intern 1. **Receipt OCR**(Computer Vision): Techniques: - Using Object Detection to find the location of text boxes like payments boxes, datetime boxes, tax boxes...After that, OCR model would read text boxes to get contents of each boxes. - Use object detection to find which images include abnormality like handwritten, red lines, 2-part receipt images, - using opencv to pre-process images and post-process
06 /07 /2020 - Present	**Kalapa Challenge** 1. Prediction to credit for 20.381 customers - Techniques to preprocess of raw data - Data anylist abilities - Algotithms like random forest, lightGBM, GradientBoosting
07 /08 /2020 - Present	**FPT AI** AI intern 1. Prediction to demand for Medicine - Techniques to preprocess of raw data - Data anylist abilities - Algotithms like XGBoost, Croston, LSTM - Using metrics to evaluate credit scores of outpur result

HONORS & AWARDS

2017	Second prize in Vietnam Mathematics competition for university students in analytics group B organized by Vietnam Mathematics Society(VMS).

SKILLS

Language	Outstanding english verbal and written communication skills
PROFESSIONAL SKILLS	- Basic level proficiency with Java, C++ and OOP programming,

Algorithm, Data Structure
- Intermediate level proficiency with Analytics, Algebra, Statistics
- Solid understanding of classical Machine Learning techniques (SVM, Softmax, PCA, Decision tree ...), Object Detection, Optical Character Recognition
- Good knowledge of Deep Learning models for Computer Vision (CNN, LSTM)
- Abilities to work with some computer vision libraries including tensorflow, opencv, keras
- Basic Skills of image processing: Edge Detection, Remove Noise, Image Agmentation like blur, rotate, add noise, padding, cropping...
- Strong analytical skills and thinking
- Strong Teamwork and communication skills

INTERESTS

Football, movies, hanging out with friends

ADDITIONAL INFORMATION

Personalities: easy-going, fun, creative, honest, confident, and hardworking