Duy Do

DeepLearning Engineer - AI Project Manager

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PROFESSIONAL SUMMARY

I have 4.5 years of experience in Artificial Intelligence/ Deep Learning. I especially love new technologies that help solve real problems in the world. Solid experience in Machine Learning, DeepLearning, and SAT. Research experience in various computer science fields. Highly logical thinking and good problem-solving skills. Personality: being hard-working, enthusiastic, careful, and a big will to learn. I am always looking to be more, do more, and make a difference in a big way, always dream about making the world a better place.

-----SKILLS-----

- Computer Vision, OCR
- Natural Language Processing

- Deep Learning Framework: Tensorflow, Keras
- Others: python, java, scikit-learn, OpenCV, Tesseract

-----Work History

1. AI Team Leader/ AI Tech Leader, 12/2018 to Current

1.1Heligate – Me Tri, Ha Noi

- Design solutions and develop AI projects about OCR and other Computer Vision projects.
- Pre-sales support: write proposals and estimations for customers' needs.
- Design and operate a process for AI projects.

1.2AI Project Manager, 09/2019 to 05/2020

Heligate – Me Tri, Ha Noi

- Manage an AI team of 7 members (5 AI Engineers, 1 tester, 1 comtor).
- Research new opportunities in healthcare and others.

2. AI/ Machine Learning Engineer, 06/2016 to 08/2018

FPT Software – Cau Giay, Ha Noi

- Developed FSoft's AI projects as an AI Engineer for Computer Vision problems.
- Researched new techniques in AI to create PoCs to demonstrate the capabilities of FTP Software to customers.
- Developed training AI fundamental courses.

3. Researcher's Assistant, 01/2015 to 05/2016

University of Engineering and Technology VNUH - Cau Giay, Ha Noi

- Researched and created new algorithms using SAT to solve the Hitori logic problem.
- Collected data, developed programs that demonstrate the effectiveness of new algorithms.
- Participated in the conference: Students with Scientific Research University of Engineering and Technology VNUH 2016

-----Projects

• AI Sudoku Solver

I developed an IOS app that can detect and automatically solve Sudoku puzzles on paper. This is a personal project that demonstrates AI - DeepLearning can be deployed in Mobile Phones and run smoothly. My object detection model can run real-time when you use a camera to scan Sudoku in the paper

Technical stack: Object Detection, Image Classification, Image Processing, Boolean satisfiability problem (SAT)

• Information Extraction

I designed and developed an Engine that could extract information in scanned documents from predefined categories. One template we have done is NameCard, we extracted some fields: name, job title, address, phone, department,... This module has been integrated with a real OCR product.

Technical stack: GCN Node Classification, Word Embedding

• Symbol Detection

I managed a team to develop a module that could detect handwriting symbols in scanned documents. We had to deal with the lack of diverse data, so we have used many different methods to generate more data.

Technical stack: Object Detection, Generative Adversarial Networks

• Orientation Detection and Style of Word Classification

I designed and developed 2 modules, one could detect the orientation of scanned documents, one could classify the Style of cropped text images (machine printed, handwriting,...). We had to solve the data imbalance problem. Technical stack: Image Classification

• Japanese OCR Engine

I managed a team to develop an OCR Engine that could recognize both Japanese handwriting and machine-printed text.

Technical stack: Object Detection, Text Correction, Tesseract

• English OCR Engine

I designed and developed an OCR Engine that could recognize both English handwriting and machine-printed text.

Technical stack: CRNN, Text Correction, Tesseract

• Diseases Detection from Chest X-ray data

This is a personal project. I created the proposal, using a very new Kaggle dataset to implement this project.

The project focuses on using techniques in deep learning to analyze X-ray image data and some of the patient's personal information to predict the disease.

The project uses Keras framework and the main techniques used and compared are CNN and CapsNet, more details see on my Github page.

• Facial Recognition

Building facial recognition systems for FPT Software, my work is to research the latest facial recognition technology, consulting and implementing.

Using facial recognition technology to support and implement some projects with customers of FSoft units.

• Future Marketing

This is FSoft's internal project, building an Intelligent Marketing System using AI such as Customer segmentation, Social listening, and so on.

EDUCATION

- Machine Learning Engineer Nanodegree, 2017 to 2018
 Udacity
- Information Technology, 2012 to 2016

University of Engineering and Technology VNU - Cau Giay, Ha Noi

- TensorFlow Developer Certificate Google
- DeepLearning.AI TensorFlow Developer Coursera
- Machine Learning Engineer Nanodegree Udacity
- Deep Learning Specialization Deep Learning.ai, Coursera
- Machine Learning Stanford University, Coursera
- Recommender Systems Specialization University of Minnesota, Coursera
- Data Engineering on Google Cloud Platform Specialization Google, Coursera
- Introduction to Neurohacking In R Johns Hopkins University, Coursera
- Implementing RPA with Cognitive Automation and Analytics Specialization Automation Anywhere, Coursera