Chu Van Thuc

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Technical Skills

Languages: Python, HTML, Javascript, LaTeX, Jupiter

ML, DL Libaries: Pytorch, TensorFlow

Libaries: Numpy, Pandas, Matplotlib

Development tools: Git, GitHub

Frontend: ReactJS

Certifications

Machine Learning (Intructor: Andrew Ng):

- Supervised learning (parametric/non-parametric algorithms, support vector machines, kernels, neural networks) & Unsupervised learning (clustering, dimensionality reduction, recommender systems, deep learning
- Best practices in ML (bias/variance theory; innovation process in ML & AI) to apply learning algorithms to building smart robots (perception, control), text understanding (web search, anti-spam), computer vision, medical informatics, audio, database mining, etc . . .

Deep Learning (Intructor: Andrew Ng):

- Build & train deep neural networks, identify key architecture parameters, implement vectorized neural networks & deep learning to applications in TensorFlow
- Train test sets, analyze variance for DL applications, use standard techniques and optimization algorithms
- Apply CNN to detection & recognition tasks, apply algorithms to image & video data
- Build and train RNNs, work with NLP and Word Embeddings, use HuggingFace tokenizers and transformer models to perform NER and Question Answering

Deep Neural Networks with Pytorch (Intructor: Joseph Santarcangelo):

- Demonstrate your comprehension of deep learning algorithms and implement them using Pytorch
- Describe how to use Python libraries such as PyTorch for Deep Learning applications
- Build Deep Neural Networks using PyTorch.
- Deeply understand and apply knowledge of Deep Neural Networks and related machine learning methods.

Getting Started with Git and GitHub (Intructor: Rav Ahuja, Lavanja Thiruvali, Suderarajan):

- Creating GitHub respositories and branches, and perform pull requests (PRs) and merge operations, to collaborate on a team project.
- Gaining distributed version control system(DVCS), Git(software), GitHub, open source, Cloning and forking
- Build porfolio by creating and sharing an open-source project an GitHub

Projects

Named-entity recognition

- Locate and classify named entities mentioned in unstructured text such as commands, messages, documents. . . etc, into pre-defined categories.

Customer Churn Prediction

- Based upon data of customers of a bank, use various ML models to calculate whether a customer stands a chance to stay in the company or not. .

Vehicle Counting using YOLOv5:

- Detect and count vehicles using YOLOv5 and Deep Sort Algorithm to perform realtime tracking & object recognition.

Education

HaNoi Architectural University: CIVIL CONSTRUCTION ENENGINEER (2019 -2024)

Languages

English: Business Competence

Vietnamese: Native