Binh Le Do Thanh
Machine Learning Engineer Intern

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Summary

Recent graduate with a Bachelor's degree in Computer Science and a strong interest in artificial intelligence. Skilled in Python, TensorFlow, and PyTorch. Passionate about leveraging AI to solve complex problems and improve user experiences.

Education

HO CHI MINH UNIVERSITY OF TECHNOLOGY   09/2018 - 11/2022
Bachelor of Engineering, Computer Science
Program: Honors program   GPA: 8.76/10

Work Experience

SINGALARITY   6/2021 - 9/2021
AI Intern | Ho Chi Minh City, Viet Nam
Technologies: Python, Tensorflow, Pytorch, Docker, Spring Framework
- Learned how to use Docker and Kubernetes in the development process
- Conducted experiments in Natural Language Processing and Speech Processing
- Assisted in the development of a number recognition system that achieved an 85% accuracy rate

Personal Projects

AUTOSUB   09/2021 - 05/2022
Developer | Team size: 2
Source: https://github.com/binh234/autosub
Description: Develop a fast, accurate, lightweight automatic subtitle generation system to recognize and transcribe spoken words into text or subtitles for audio/video.
Technologies: Python, Transformers, Speechbrain, Wav2Vec2
Responsibilities: - Collected over 600 hours of raw speech data from multiple sources
- Tackled multiple problems including Voice Activity Detection, Speech Recognition, Capitalization and Punctuation restoration
- Achieved 96% accuracy on the clean test set and 90% accuracy on the noise test set

AUTOMATIC CAPITALIZATION AND PUNCTUATION   01/2022 - 04/2022
Developer | Team size: 1
Source: https://github.com/binh234/capu
Description: The project aimed to predict the correct capitalization and punctuation of text inputs, such as speech recognition output or messages. I used Sequence Tagging approach to tackle this problem.
Technologies: Python, Transformers, NLP
Responsibilities: - Preprocessed the data by removing stopwords and performing normalization, tokenization
- Utilized pretrained BERT model for faster convergence and better accuracy
- Achieved 90% accuracy on the Capitalization task and 80% on the Punctuation task

INVERSE TEXT NORMALIZATION   01/2022 - 03/2022
Developer | Team size: 1
Source: https://github.com/binhnd234/nemo
Description: Develop an inverse text normalization system to improve the accuracy of chatbot responses and speech recognition system.
Technologies: Python, NeMo, NLP
Responsibilities: - Used Finite State Transducer (FST) to map normalized text to its original spoken or written form, considering contextual and linguistic factors

- Contributed to the NeMo repository and got accepted

Skills

Programming languages	Python, Go, JavaScript, ReactJS, NodeJS, Java, Kotlin, C/C++
Machine learning frameworks	TensorFlow, PyTorch, Transformers, scikit-learn
Frameworks/Libraries	Django, Express, Fiber, Material UI 5, Bootstrap, Docker
Databases	MySQL, Firebase, MongoDB
Tools	Visual Studio Code, GitHub
Others	Data Visualization, Computer Vision, Natural Language Processing, Speech Processing

Honors & Awards

AWS Certified Cloud Practitioner Certificate	2022
43rd place in Google Landmark Retrieval 2021	2021
TOEIC Certificate with score 825, issued by IIG	2020
First prize in 2019 Mathematical Olympiad for student	2019