Truong Minh Khang

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PROFESSIONAL SUMMARY

Passionate AI student with expertise in machine learning, deep learning, and data science. Experienced in developing intelligent systems, optimizing AI models, and implementing cutting-edge technologies. Skilled in both computer vision and natural language processing. Eager to contribute to innovative AI-driven solutions.

EDUCATION

Bachelor of Computer Science

Ho Chi Minh University of Technology (Bach Khoa University)   GPA: 3.5/4.0

- Developed an AI-based text detection system and deployed it on Hugging Face Spaces.
- Built and deployed simple web applications.
- Designed and implemented a simple operating system, a peer-to-peer application, and a basic compiler.

RESEARCH PROJECTS

Remote Sensing Image Captioning
- Explored a wide range of machine learning methods to improve image captioning models.
- Evaluated model performance using state-of-the-art metrics such as BLEU, METEOR, and ROUGE.
- Framework: Tensorflow, TPU

Remote Sensing Object Detection
- Fine-tuned deep learning models on the DIOR dataset for object detection.
- Implemented the Relative Value Self-Attention (RVSA) mechanism to enhance model accuracy.
- Framework: MMDetection, MMRotate, Pytorch

YOLO-Based Defect Detection on Production Line Products: A Hugging Face Demo
- Finetune model based on YOLO framework.
- Pushed on Huggingface's Space for demo.

TECHNICAL SKILLS

Programming and AI Frameworks
- **Python**: Experienced in machine learning, deep learning, and data science.
- Frameworks: Tensorflow, Pytorch, MMDetection, MMRotate

Problem Solving and Research
- Developed multiple approaches for image captioning and object detection tasks.
- Optimized a Vision-Language model to achieve state-of-the-art performance.
- Read and implemented machine learning research papers from scratch.
- Skilled in both vision-based and language-based AI tasks.

LANGUAGES

- **Vietnamese**: Native speaker
- **English**: Daily usage, IELTS 6.5