

Ya-Chi Chan

AI Application Engineer

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🔗 <https://github.com/maggie860326>

Innovative AI developer with expertise in TensorFlow, PyTorch, object detection, and computer vision. Passionate about using deep learning to create impactful, user-centric applications. Outside of tech, I fuel my creativity through scuba diving, sailing, and playing the piano. A collaborative team player with a problem-solving mindset, eager to explore new technologies and deliver innovative solutions.

Skills

- Python
- Scikit-learn, PyTorch, TensorFlow
- Computer vision (OpenCV, YOLO)
- Human pose detection
- Git
- Flutter
- Hadoop and Spark
- Docker

Projects

● AI-Powered Mobile App for Early Alzheimer's Detection

- Designed a mobile application leveraging AI to analyze spontaneous speech for Alzheimer's risk assessment.
- Implemented OpenAI's Whisper model to transcribe recorded speech into text with high accuracy.
- Developed a backend pipeline using Python to extract 15 linguistic features, such as long pause ratio and lexical density.
- Created intuitive radar chart visualizations to present linguistic feature scores and abnormality predictions, ensuring user-friendly results delivery.

● H&M Personalized Recommendation System

- Developed a personalized recommendation system leveraging H&M's customer purchase history, with deployment on a functional web platform.
- Designed and implemented SVD and KNN-based recommendation models, achieving optimized performance through cross-validation on Spark.
- Built an interactive web interface with functionalities such as personalized recommendations, similar product suggestions, and automated reporting.
- Deployed the application using Docker Compose for scalable and efficient containerized services.

Education

● National Cheng Kung University

2023 - present

- M.S in Intelligent Technology Systems

● National Cheng Kung University

2015 - 2019

- B.S in Psychology