

Anni HUANG DATA-Engineer

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Profile

I'm a Research Scientist(AI in Healthcare) working in A*STAR-SMU Joint Lab. Graduated from master in AI from Singapore Management University. I have strong foundation of data science and a passion to use AI and data to streamline people's work. I am experienced in managing data warehouses, full stack software development, explainable machine learning, data engineering, data analytics and AWS services.

Professional Experience

Research Scientist, A*STAR-SMU Joint Lab

Sep 2022-Present

- Automated alert reminders for sensor technicians to do maintenance by developing a telegram bot on a docker running on an AWS EC2 instance using NGINX Routing Engine, MQTT Broker, PostgreSQL, and Crontab, reduced response time from 1 week to 24 hours.
- Optimised ETL process using joblib's parallel processing and vectorisation using NumPy, reduced 80% of data processing time from 10 hours to 2 hours.
- Design and developed cognitive impairment model of in-home sensor, analysed the crucial changes in living patterns from healthy to cognitive impairment, experimented with different versions of data and models using MLflow, improved F1 score from 0.7 to 0.9 by not updating weights for missing features.
- Integrated a dashboard developed by a student research assistant with our backend system, reduced 60% of physician's workload (around 1/3 of the people referred by Hospital has MCI) by highlighting the potential patients with charts showing the changes in their daily activity patterns.
- Proposed research methodology to extend the research from indoor to outdoor activities with A*STAR, submitted IRB in Jun 23 and got approved in Sep 23.

Skills

Programming Languages

Python, Java, Go, R, TypeScript, C++, Bash

Frameworks & Libraries

Django, Spring Boot, React, PyTorch, Joblib, MLflow, Airflow, Sklearn, Pandas, Numpy, Docker, SciPy, PySpark, AWS

Certificates

Deep Learning Specialization

DeepLearning.AI

Generative AI for Everyone

DeepLearning.AI

Machine Learning Engineering for Production(MLOps) Specialization

DeepLearning.AI

AWS Certified Cloud Practitioner

AWS

Education

Artificial Intelligence, Singapore Management University

Master's Degree of IT in Business (Artificial Intelligence track)

Aug 2021-Aug 2022

Computer Science, Huaqiao University

Bachelor's Degree of Computer Science

Sep 2017-Jul 2021

Languages

English

Work proficiency

Mandarin

Native