YIZE SUN

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EDUCATION

The University of Hong Kong

Sep 2022 - Dec 2023

Master of Science - Artificial Intelligence

Shandong University

Sep 2018 - Jun 2022

Bachelor of Sciences - Statistics

Courses: Data Structure and Software Engineering (90), Operations Research (98), Deep Learning (96), Computer Vision (96)

PROFESSIONAL EXPERIENCE

Shanghai Al Laboratory

Mar 2022 - Aug 2022

Python Developer Intern

- Worked on **SenseTime** dataset management platform project: **Sinan**, developed python client on dataset json schema validation and dataset search api, etc.
- Engaged in dataset standardization project: **OpenDataLab**, created standard json format for dataset annotation such as Box2D Tracking and Optical Flow, and developing python sdk for dataset standardization.
- Leveraged **OpenMMLab** and object tracking datasets such as ILSVRC, MOT to train models, and adjust these dataset annotation formats according to the model accuracy.

Cummins (China) Investment Co., Ltd

Jul 2021 - Sep 2021

Data Analysis Intern

- Leveraged **Spark SQL** and **Python** to extract features from 2 million rows of raw data, including customer profiles, purchase history, inventory query history, etc.
- Built Random Forest Regressor using PySpark to predict the sales of mobile parts.
- · Constructed data pipeline for weekly forecasting and accuracy calculation, achieving 30% average MAPE.

PROJECT EXPERIENCE

IndoorHIIT Motion Recognition

- Collected IndoorHIIT motion data from 50 testers, each data containing six-dimensional acceleration and angular velocity as well as number of motions; used **MySQL** database to select and preprocess data.
- Applied Random Forest Classifier for motion recognition; utilized Wave Detection Method to count the number of movements.
- Developed the interface of the WeChat mini-program; deployed the model in the server and used terminal cloud architecture to achieve motion recognition.

Object Detection and Image Classification Using Raspberry Pi

- Built MobileNetV2 model to perform image recognition task based on 33,000 images of flowers and fruits using TensorFlow.
- Tuned the parameters of the model and applied batch normalization and data transformation to reduce validation error.
- Deployed real-time classification model on Raspberry Pi using TensorFlow Lite, achieving 90% accuracy.

HONORS & AWARDS

First Prize in Shandong Province, Contemporary Undergraduate Mathematical Contest in Modeling

Third Class Scholarship in 2020 and 2021 Academic Year

SKILLS LIST

- Programming Languages: Python, SQL, MATLAB, C
- Tools: Linux, Git, Docker, MySQL, AWS, K8s, Flask, Spark, Pandas, Numpy
- Languages: English, Mandarin