Resume

Name: Duan Suyang   Phone: +852 68797587   Email: duansuyangjob@outlook.com

Education:

- Bachelor's degree in Computer Science and Technology, Northeast Forestry University
- Master's degree in E-commerce, City University of Hong Kong

Project Experience:

Machine Learning SMS Classification Project (NLTK, Numpy, Panda)   08/2023 - 09/2023

1. Text preprocessing using nltk and other feature extraction.
2. Improve prediction accuracy by handling unbalanced samples using SMOTE, adjusting class weights, Bagging, etc.;
3. Train multiple models (SVM, Bayes, Linear/Logistic Regression, Random Forest) using cross-validation to select parameters, getting a balanced accuracy of 0.89;

Wind Turbine Blade Defect Detection System (YOLO, OpenCV, Pytorch, PyQt)   12/2022 - 05/2023

1. Collection of real data and labeling;
2. Sample enhancement using image fusion algorithm based on torch to process images;
3. Detection of defects based on the YOLOv5;
4. Designing the system software interface and deploying the model using Qt designer;

Universal External Preprocessing System for Ultrasonic Machines (CNN, OpenCV, matchTemplate, OCR, PyQt)   05/2020 - 05/2021

1. Developed an intelligent ultrasonic image preprocessing system in cooperation with Harbin Medical University.
2. Developed image recognition and automated cropping algorithms. Saved 80% of the time required to process ultrasound images by medical professionals.
3. Won the National College Student Computer Design Competition Third Prize and the Northeast Forestry University "Challenge Cup" Entrepreneurship Third Prize.

Self-Evaluation

Having abilities for using various software (office, PS, PR) and being familiar with the SSM framework required for website development, be proficient in using machine learning and deep learning algorithm models and frame (tensorflow, PyTorch) required for statistical analysis and model building.