

WebLog

June 20

Met with Supervisor Jasper for the first time. Discussed the requirements for the graduation project and developed a plan for the summer.

June 27

Selected a few potential topics for the graduation project based on our previous discussions and met with Jasper to discuss the feasibility of these thesis directions.

June 27 - July 15

After reading literature and consulting with my supervisor, I finally decided on my thesis topic: an intelligent system related to fashion.

July 15 - August 10

Read and organized articles related to the thesis topic. Understood the current trends and technologies in fashion recommendation systems.

August 15

After reading literature and comparative studies, decided to use the DeepFashion2 dataset to train my model because it has collected a large number of fashion images and annotations.

August 15 - August 25

Started preprocessing the dataset to facilitate later training.

August 26

After various comparisons and literature analysis, decided to use the YOLO series model for clothing detection and recognition.

August 26 - September 10

Initially chose the YOLOv5 model but found its accuracy to be low. Finally selected YOLOv8.

September 10 - October 1

Trained the YOLOv8 model using the DeepFashion2 dataset. Due to equipment limitations, only the first 3000 images of the dataset were used for training.

October 1 - October 10

Integrated CBAM into YOLOv8 for optimization, but there was not

much improvement in the model training results.

October 10 - October 25

Integrated MHSA into YOLOv8 for optimization. After training model comparison, finally chose to use MHSA as the attention mechanism for C2f in the model training.

October 25 - November 10

Expanded the training set to the first 10,000 images of the dataset and retrained the model to improve its accuracy and generality.

November 10 - November 15

Worked on system integration and the development of a visual interface.

November 15 - November 22

Organized the literature learned during the process and completed the thesis.

