**Meeting Minutes**

Date: September 25, 2023

Location: TB3-209

Chairperson: Bincheng Peng

Attendees: Yunjin Gu, Zexin Wang

1.Meeting Objective: The objective of the meeting was to discuss and train the YOLOv8 model for object detection and address any difficulties or obstacles encountered during the process.

2.Meeting Content and Discussion Results: Bincheng Peng shared relevant information about the YOLOv8 model, including its features, applications, and existing training results. The group agreed on using YOLOv8 as the model for object detection training.

3 Difficulties and Obstacles Discussed:

Inaccurate model recognition: To address this issue, it was decided to enhance the accuracy of the model by increasing the training dataset, adjusting model parameters, and performing iterative optimizations.

Lack of training dataset: To overcome this problem, it was determined to collect and annotate data or utilize publicly available datasets to obtain a sufficient number of training samples.

GUI code execution issues: After analysis, it was found to be an environment configuration problem. It was decided to assist Yunjin Gu in resolving the GUI code execution issue and provide necessary technical support.

Multiple solutions were discussed and implemented during the meeting. Continuous communication was maintained to share progress and address any challenges.

4.Achievements:

Significant improvement in model recognition accuracy, meeting the desired objectives.

Acquisition of a rich training dataset through data collection and annotation, satisfying the requirements for model training.

Successful execution of GUI code after debugging and improvements, resulting in a user-friendly interface with comprehensive functionality.

5.Next Steps and Action Plan:

Bincheng Peng will continue optimizing the model to further improve recognition accuracy and share related progress.

Yunjin Gu will optimize and improve the GUI code to meet user requirements.

Zexin Wang will be responsible for data collection, organization, annotation, and continuous improvement of the training dataset.

6.Summary: The meeting demonstrated effective teamwork and problem-solving capabilities. Through collaboration and active discussion, numerous challenges were overcome, leading to satisfactory results. Appreciation was expressed for the efforts and contributions of all attendees.

7.Next Meeting Arrangements: October 9, 2023