**Meeting Notes** **Date**: 2 – 16 – 2024  
**Meeting**: Model Decision Update

**Attendees**: Team Members, Client

**Discussion Points**:

1. **Code Development Update**:
   * The client was informed about progress on code development to extract images from video data.
2. **Model Selection**:

* The client was informed of the team’s decision to proceed with the YOLO (You Only Look Once) model for object detection.
* YOLO was chosen for its ability to achieve real-time object detection with high accuracy, which is the client’s priority.

1. **Dataset:**

* Our team placed emphasis on the significance of datasets in training the YOLO model to enhance accuracy.
* We agreed upon utilizing a combination of provided images (extracted from the client’s video data) and a comprehensive online dataset.

1. **Client Feedback:**

* The client will independently research the YOLO model to assess its suitability for the project and alignment with their objectives.
* Some technical questions were asked of the team, but nothing is outstanding.

**Next Steps**:

* The team is strongly considering the dataset GBDD1433 for our model.
* Label the extracted images from the client’s dataset.
* Resize images to optimize object detection.
* Compile a complete dataset comprising the client’s dataset and an online resource.
* Initiate implementation of the YOLO Model to gauge initial performance.
* Schedule a follow-up meeting on February 23 to review progress and discuss subsequent actions.