**Object and Video Detection Project**

This project demonstrates object detection using OpenCV and Matplotlib, with references to advanced object detection frameworks like Detectron2.

Project Overview

The project utilizes computer vision techniques to detect objects in images or video streams. OpenCV is used for image processing and handling, while Matplotlib assists with visualization. The project also references Detectron2, a high-performance object detection library.

Setup and Installation

1**. Clone the Repository**

git clone <repository\_url>

cd <repository\_folder>

2. **Install Required Libraries**

The following Python libraries are required for this project:

- OpenCV

- Matplotlib

- NumPy

**3. Install them using the following commands:**

pip install opencv-python matplotlib numpy

References

- [Detectron2 GitHub](https://github.com/facebookresearch/detectron2)

- [OpenCV Documentation](https://docs.opencv.org/)

- [YouTube Tutorial on Object Detection](https://www.youtube.com/watch?v=luWCJ2pWmhM)

**4. Usage**

Run the Jupyter notebook to execute object detection on sample images or your own dataset. Modify the code to explore various object detection methods.

**5. License**

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