

# Document Of Selected Project

## Information About Dataset:

Name : License Plates - Augmented License Plates

Link: <https://universe.roboflow.com/samrat-sahoo/license-plates-f8vsn>

Total number of sample = 1084

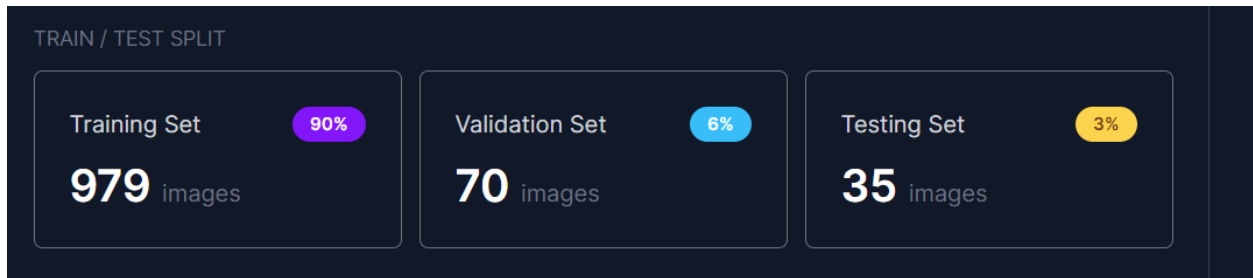
Dimension of images = 640x640

Number of classes = 2 classes (license plate & car)

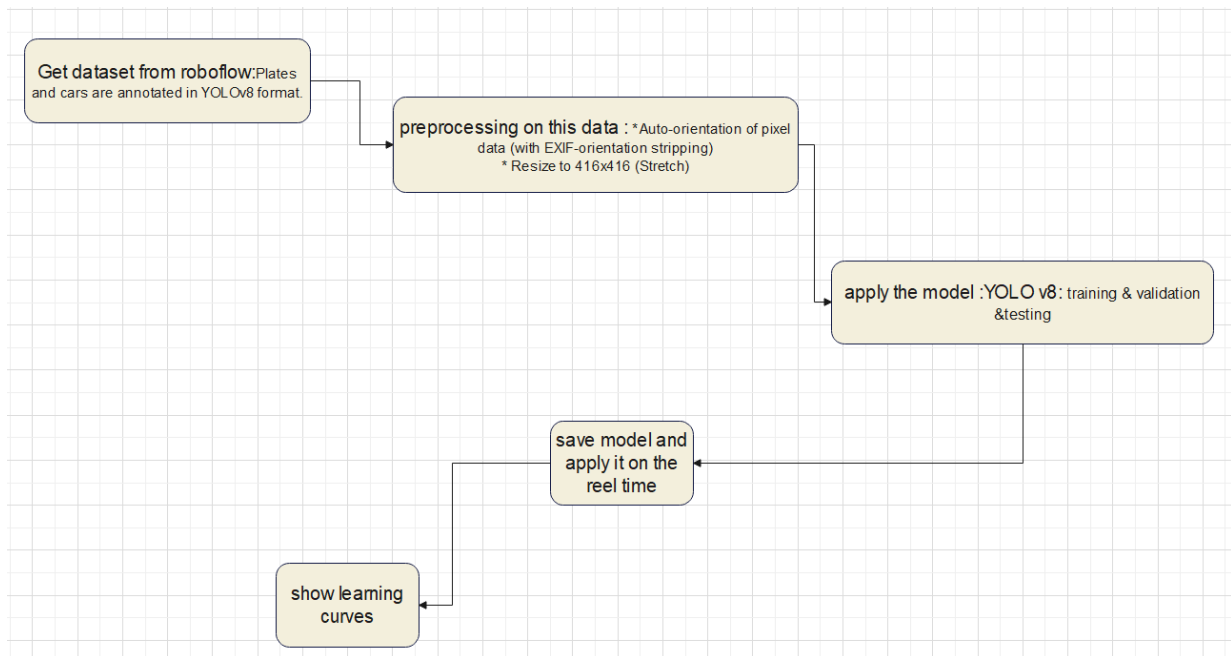
## Implementation details:

- implementation or script.
- **task=detect**: This indicates that the task is object detection.
- **mode=predict**: This indicates that the mode is prediction, meaning that the algorithm is predicting the presence and location of objects in the video.
- **model=/content/runs/detect/train/weights/best.pt**: This specifies the location of the YOLO model file that will be used for the prediction task. The path to the model file is "/content/runs/detect/train/weights/best.pt". The ".pt" extension is common for PyTorch models.
- **conf=0.25**: This sets the confidence threshold for object detection to 0.25. Any bounding boxes with a confidence score below this threshold will be discarded.
- **source=/content/(file for test)** This specifies the location of the images or video file that the algorithm will be used to detect objects in..

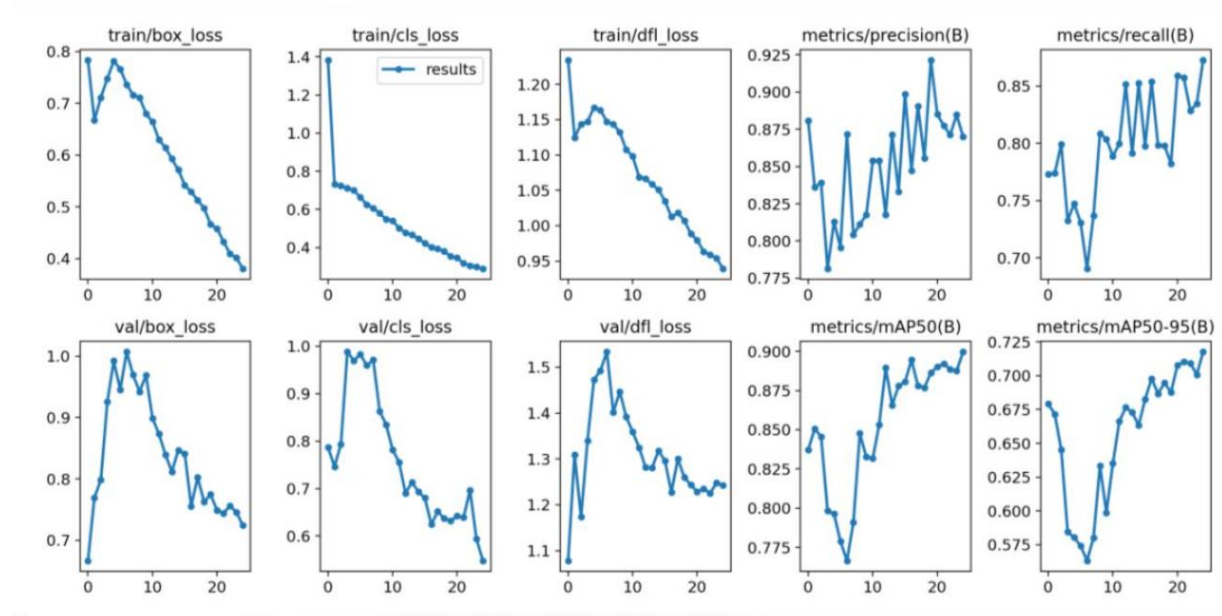
the ratio used for training, validation, and testing. Also, the number of images in each:



The block diagram:



## Learning curves/result details:



## Results:









vehicle 0.97.86

license-plate 0.92

vehicle 0.98



licen