Project proposal

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Basic proposal is to detect motorcycles in a video with deep learning algorithm. Databases used will be any open source motorcycle database like CIFAR-100 or ImageNet. I can film my own motorcycle for a specific bike detection. Algorithm used can be Fast or Faster R-CNN, YOLO, or SSD. Whichever Tensorflow Keras can run within the budget computing power. If possible, I will work on a personal traditional computer vision method to detect my own motorcycle.

Everything will be in Python. If my own motorcycle is filmed, then it will be filmed with Sony a7 with 16mm wide angle lens that will be set to 1920 x 1080.