Cost Efficient and Scalable Backbone Network for Real time Object Detection

*\*Tentative name*

# **Dataset** : PASCAL VOC *(\*tentative)* link – [*click here*](https://gluon-cv.mxnet.io/build/examples_datasets/pascal_voc.html)

# **Papers that will be referred** *(\*tentative and more will be added)*:

1. [CSPNET: A NEW BACKBONE THAT CAN ENHANCE LEARNING CAPABILITY OF CNN](https://arxiv.org/pdf/1911.11929v1.pdf)
2. [Training-Time-Friendly Network for Real-Time Object Detection](https://arxiv.org/pdf/1909.00700v3.pdf)
3. [CenterMask : Real-Time Anchor-Free Instance Segmentation](https://arxiv.org/pdf/1911.06667v5.pdf)
4. [Objects as Points](https://arxiv.org/pdf/1904.07850v2.pdf)

**Content :**

1. **Short review of existing literatures**
2. **Setting up architecture in cloud**
3. **Assistance in setting up architecture locally (Limited to hardware capability)**
4. **Modelling of Deep CNN architecture**
5. **Inferencing of results**
6. **Experimentation with other models and result comparison**
7. **Future work possible and references**

**Poster Example :**

