**PhD**

**YOLOv3 An Incremental Improvement ax180408**

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Two main improvements over v2:

- Prediction over 3 scales similar FPN
- Using the new backbone with 53 layers instead of the 19 layers of v2

Solve the problem of not being able to detect the small objects but seems to be a bit of an overcorrection as the accuracy of detecting larger and medium object seems to have gone down

apparently using focal loss and faster RCNN type anchor boxes and thresholds did not work out

performs much better compared to other models when using the 0.5 intersection over union metric indicating that it is quite good at actually detecting objects though its not as good at getting the fine alignment right