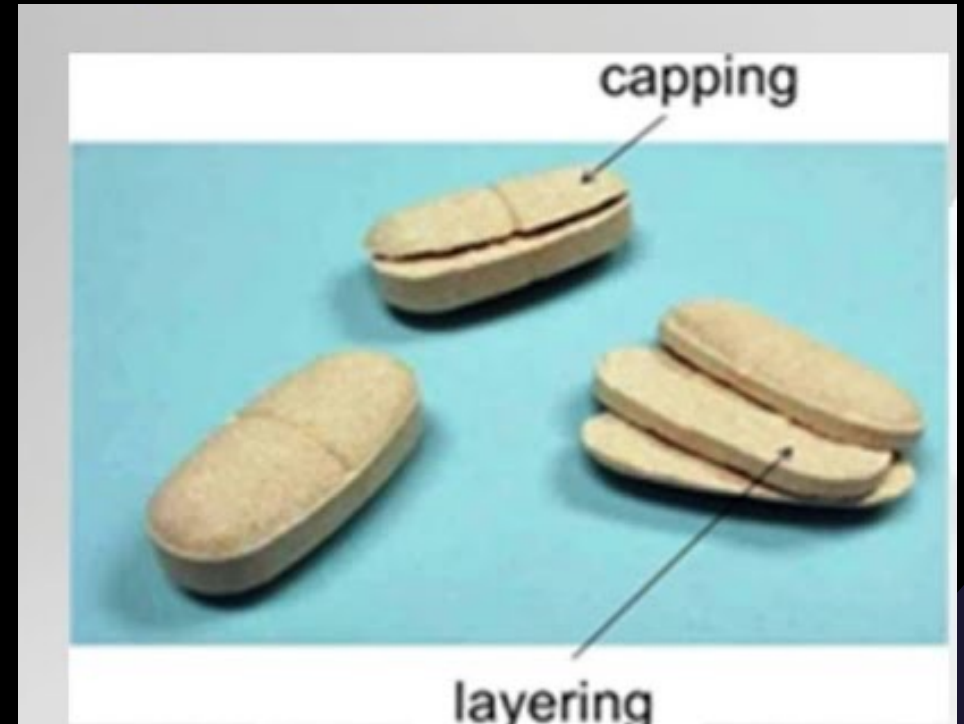


DEFECT DETECTION

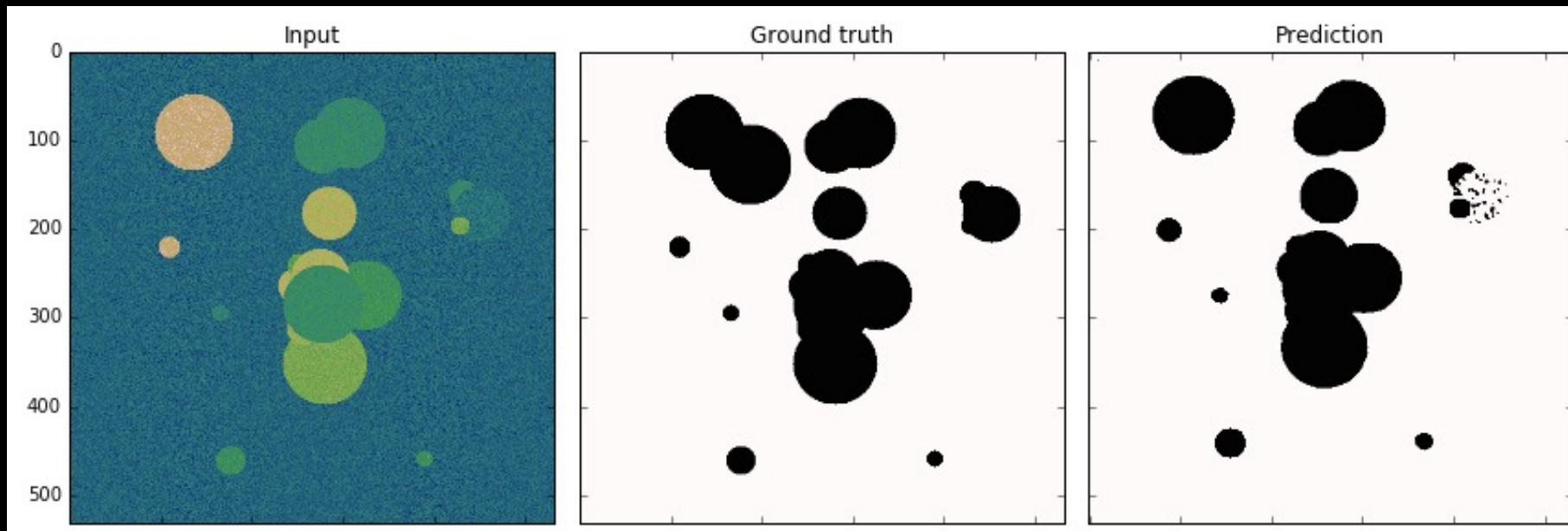
Mì AI

Defect Detection?



Model

- Unet Segmentation



Model

- Unet Segmentation

Input

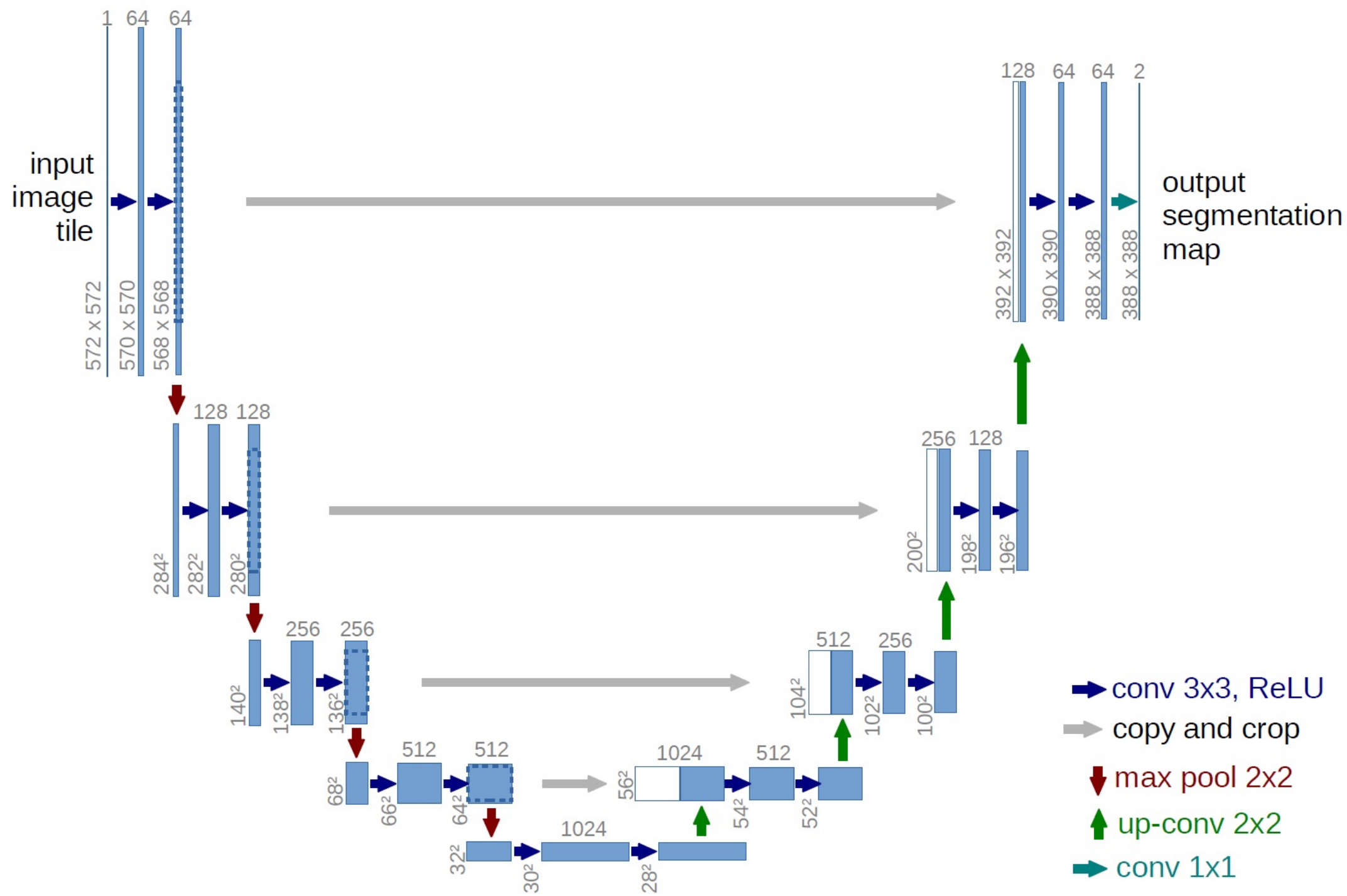


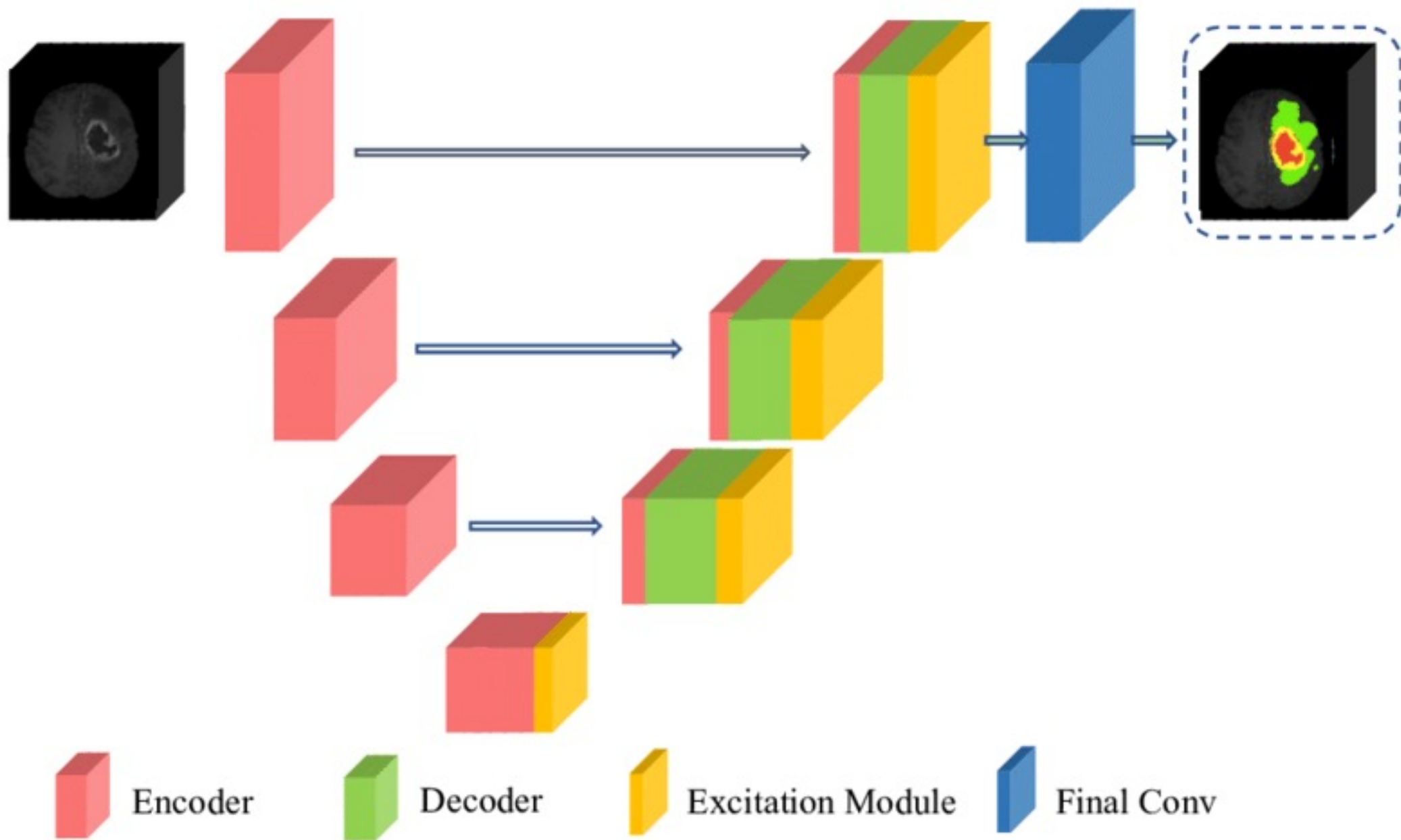
Ground truth



Prediction







Model

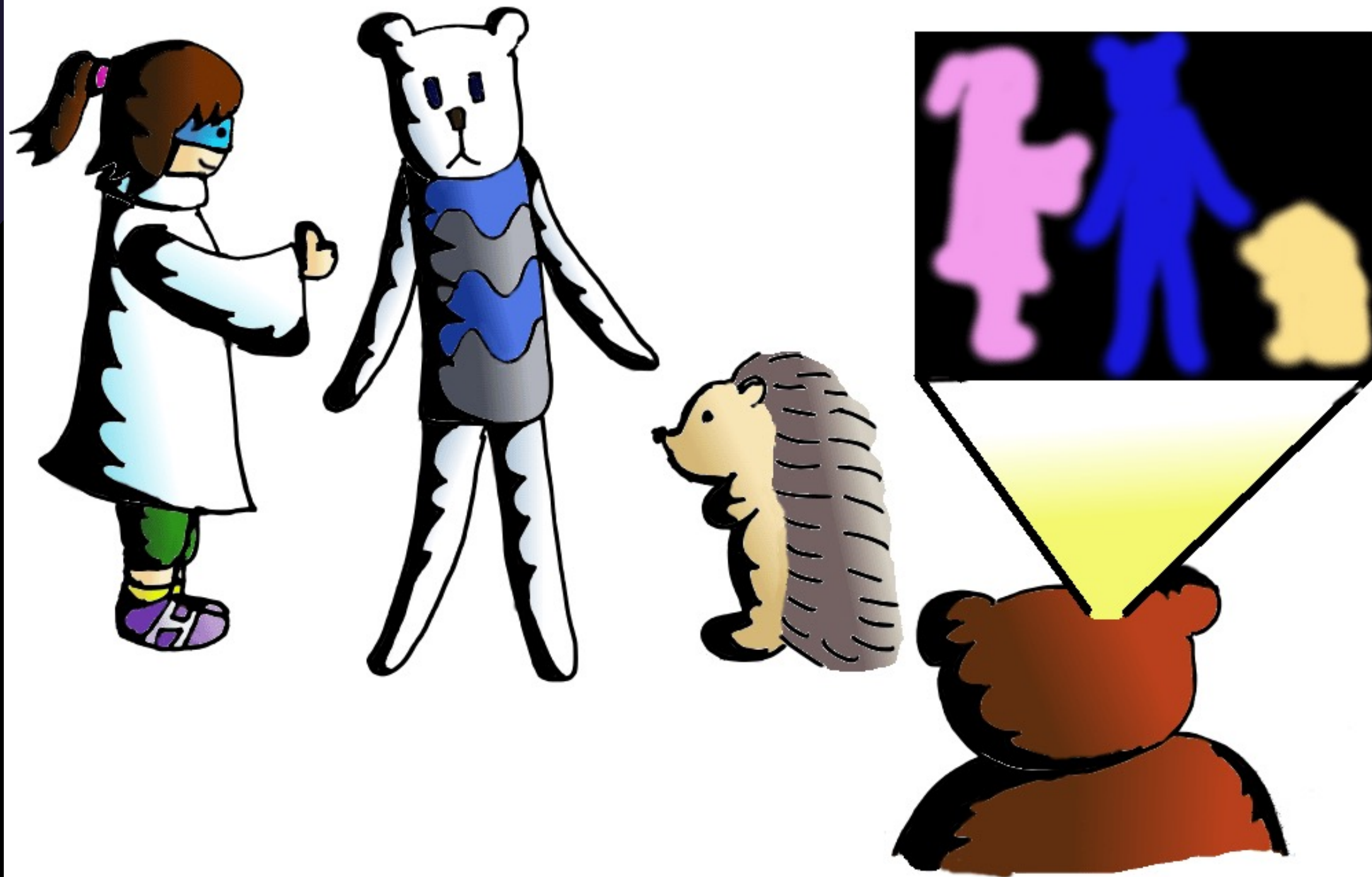
- Unet Backbone:

Resnet

VGG


DenseNet

InceptionNet



Model

- IoU Metric

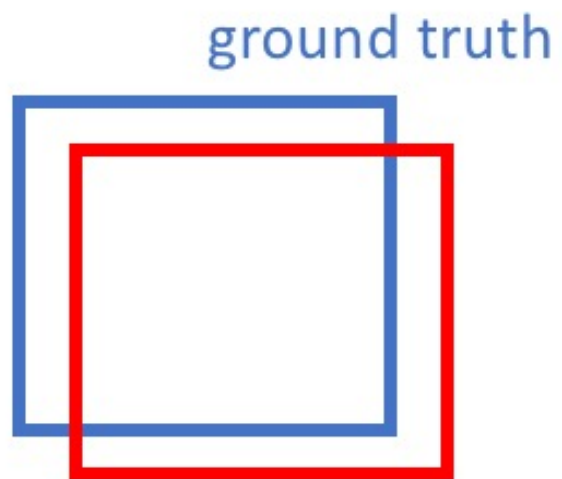
$$\text{IoU} = \frac{\text{Area of Overlap}}{\text{Area of Union}}$$


Model

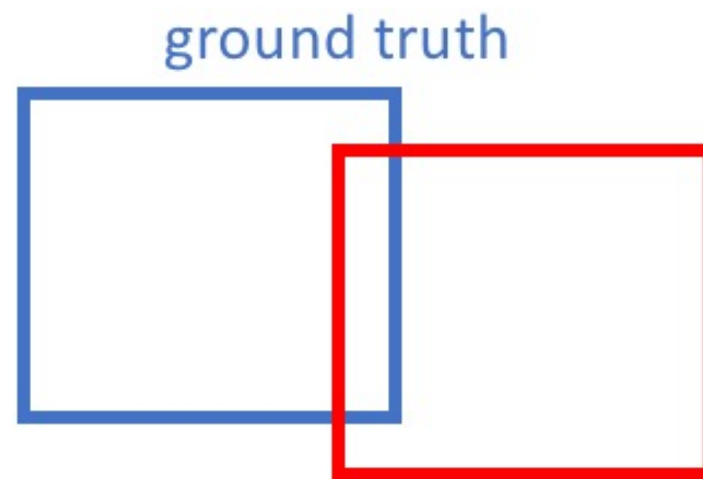
- Unet Segmentation



IoU



$\text{IoU} = 0.8$ prediction



$\text{IoU} = 0.1$ prediction

Hand-on

- Pip install segmentation_model
 - Public Defect Product Dataset
 - Gán nhãn
 - Keras
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