## Block Diagram for Deep Learning Approach to penetrations refinement

Penetration Crops

Background/Foreground

Resnet-34

Background Crops

Bounding box

# Requirements for Train.ipynb

|  |  |  |
| --- | --- | --- |
| Parameter Name | Description | Default value |
| args.dataset | Path to dataset | None |
| args.batch | Batch size | 20 |
| args.epochs | Number of iterations on the dataset | 30 |
| args.lr | Initial learning rate | 1e-4 |
| args.cuda | It is for training on GPU | False |
|  |  |  |

# Dataset

The dataset folder is required to contain ‘.jpg’ image files and a ‘.txt’ file with same name which contains the labels as “xmin ymin xmax ymax class\_number”

# Requirements for Test.ipynb

|  |  |  |
| --- | --- | --- |
| Parameter Name | Description | Default value |
| args.dir | Path to folder containing ‘.jpg’s to run test on | None |
| args.ckpt | Checkpoint of the model to load weights from | None |