





Data was collected from Hadoop cluster and was divided in training and validation set.

Data **Augmentation** 

A Neural Net using convolution layers was designed for both problems, followed by training.

Model was moved to production for real time defect analysis

Refine and Improve model

**Data Collection** 

Collected dataset was limited in size. To generate more data, Augmentation techniques were used.

Design Neural Network

Model was refined using parameter tuning and evaluated on validation set with accuracy of ~85%

Moving to **Production** 



