

Models So far.....

D (Defective)

ND (Non Defective)

| Model                              | 8 Fold Validation (Mean) |            | Test Set  |            |
|------------------------------------|--------------------------|------------|-----------|------------|
|                                    | D acc (%)                | ND acc (%) | D acc (%) | ND acc (%) |
| Saswat Net                         | 76.9                     | 64.39      | -         | -          |
| DN201 + ann                        | 82.36                    | 80         | 67        | 82         |
| DN201 + conv                       | 83.8                     | 82.2       | 76        | 80         |
| DN201 + conv2                      | 84.727                   | 81.3       | 83.05     | 74.64      |
| Ensemble ( VGG16 + DN121 + DN201 ) | 75.84                    | 72.5       | 66.1      | 87         |
| DN201 + SVC                        | 84.4                     | 78.8       | 79.6      | 76.8       |

Saswat Net Fold Accuracies

| # Fold | D acc (%) | ND acc (%) |
|--------|-----------|------------|
| 1      | 100       | 0          |
| 2      | 77        | 83         |
| 3      | 100       | 0          |
| 4      | 0         | 100        |
| 5      | 81.35     | 89.83      |
| 6      | 77.9      | 93.2       |
| 7      | 100       | 0          |
| 8      | 79.6      | 84.7       |