|  |  |  |
| --- | --- | --- |
| *Args* | *Description* | *Value* |
| *Rotation range* | Degree range for random rotations | 5 |
| *Width shift range* | Fraction of total width, if<1, or pixels if >=1 | 0.05 |
| *Height shift range* | Fraction of total width, if<1, or pixels if >=1 | 0.05 |
| *Brightness range* | Range for picking a brightness shift value from | [0.9, 1.1] |
| *Zoom range* | Range for random zoom | [0.9, 1.1] |
| *Horizontal flip* | Randomly flip inputs horizontally | True |
|  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Category* | *Training (70%)* | *Validation (10%)* | *Testing (20%)* | *Total (100%)* |
| *COVID* | 2531 | 461 | 724 | 3716 |
| *Lung Opacity* | 4208 | 601 | 1203 | 6012 |
| *Normal* | 7134 | 1019 | 2039 | 10192 |
| *Viral Pneumonia* | 941 | 134 | 270 | 1345 |
| *Total* | 14814 | 2115 | 4236 | 21265 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *Precision* | *Recall* | *F-1 Score* | *Support* |
| *COVID* | 0.98 | 0.95 | 0.96 | 724 |
| *Lung Opacity* | 0.92 | 0.89 | 0.90 | 1203 |
| *Normal* | 0.92 | 0.95 | 0.94 | 2039 |
| *Viral Pneumonia* | 0.98 | 0.97 | 0.98 | 270 |
|  |  |  |  |  |
| *Accuracy* |  |  | 0.94 | 4236 |
| *Macro avg* | 0.95 | 0.94 | 0.95 | 4236 |
| *Weighted avg* | 0.94 | 0.94 | 0.94 | 4236 |