TECHNICAL REPORT

PREDICTING INVASIVE DUCTAL CARCINOMA USING CNNS

SOFTWARE USED - keras, OpenCV, Python and sklearn

INPUT IMAGE DATA SHAPE = (50, 50, 3)

EPOCHS = 50

BATCH SIZE = 32

TOTAL TESTING/VALIDATION IMAGES = 41629

ACTIVATION FUNCTION USED = "Softmax" for Output Layer and "ReLu" for Other Layers

Optimizer	Balanced Accuracy	Accuracy	Weighted Precision	Weighted Recall	Weighted F1-Score
Adadelta	86.31	86.02	0.88	0.86	0.86
Adam	85.55	85.28	0.87	0.85	0.86
Adagrad	85.67	85.21	0.87	0.85	0.86
RMSProp	84.79	84.57	0.86	0.85	0.85
Adamax	86.18	85.34	0.87	0.85	0.86