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TRABALHO DE IAA011 – Visão Computacional

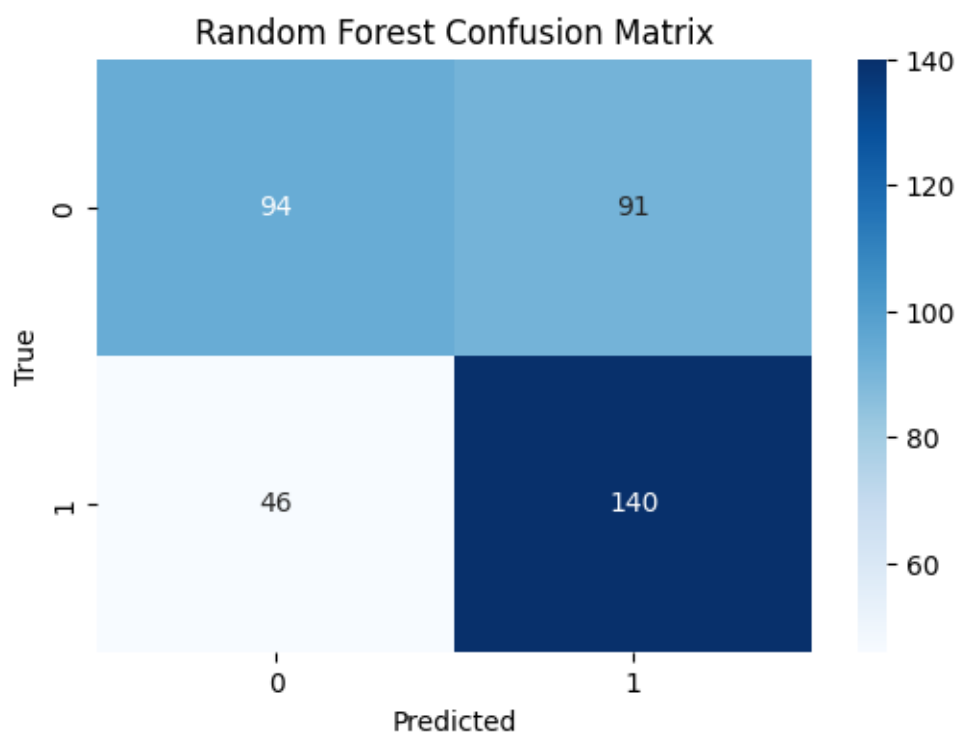
1 Extração de Características

Modelo que dá o melhor resultado é o MLP pois, tanto a sensibilidade quanto o F1-Score foram os melhores.

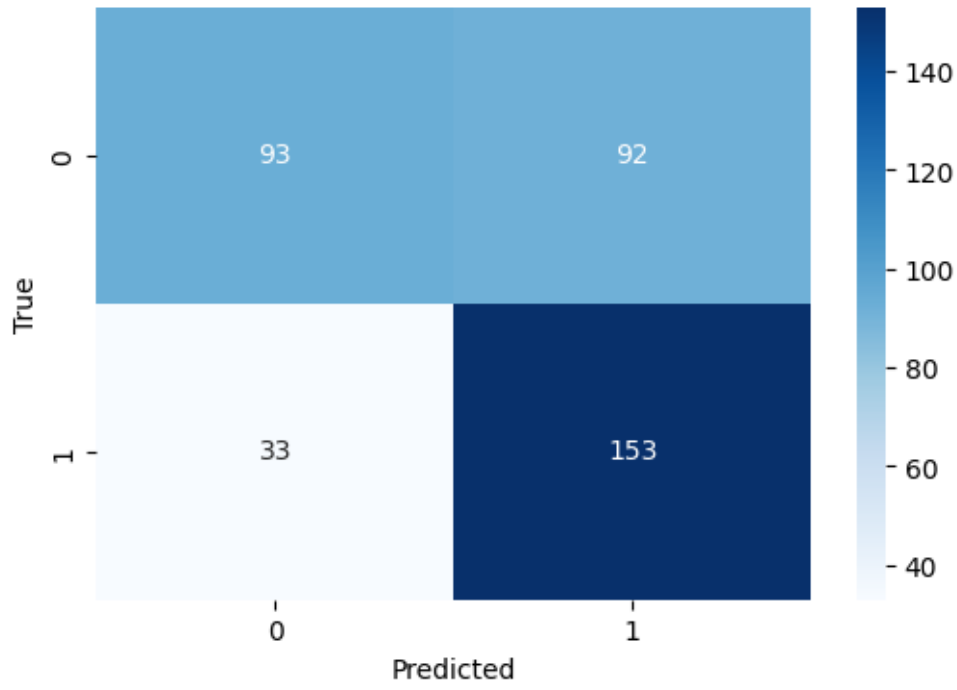
Random Forest - Sensitivity: 0.7526881720430108, Specificity: 0.5081081081081081, F1-Score: 0.6714628297362111

SVM - Sensitivity: 0.8225806451612904, Specificity: 0.5027027027027027, F1-Score: 0.7099767981438515

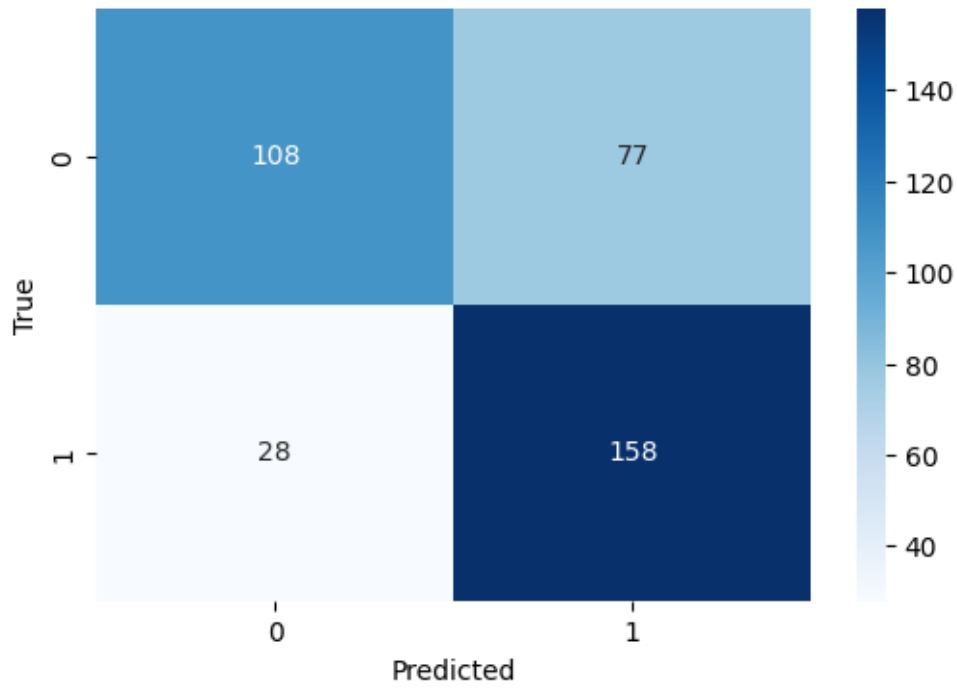
MLP - Sensitivity: 0.8494623655913979, Specificity: 0.5837837837837838, F1-Score: 0.7505938242280285



SVM Confusion Matrix



MLP Confusion Matrix



2 Redes Neurais

Modelo que com o melhor resultado é o VGG16 pois, tanto a sensibilidade quanto o F1-Score foram os melhores.

VGG16 - Sensitivity: 0.8629262926292629, Specificity: 0.9405940594059405, F1-Score: 0.8619967496890574

ResNet50 - Sensitivity: 0.44999999999999996, Specificity: 1.0, F1-Score: 0.38426907376919783

VGG16 with Augmentation - Sensitivity: 0.85, Specificity: 1.0, F1-Score: 0.8489400231242192

ResNet50 with Augmentation - Sensitivity: 0.4908965896589659, Specificity: 1.0, F1-Score: 0.428981159150537