

COVID-Classifier: An automated machine learning model to assist in the diagnosis of COVID-19 infection in chest x-ray images

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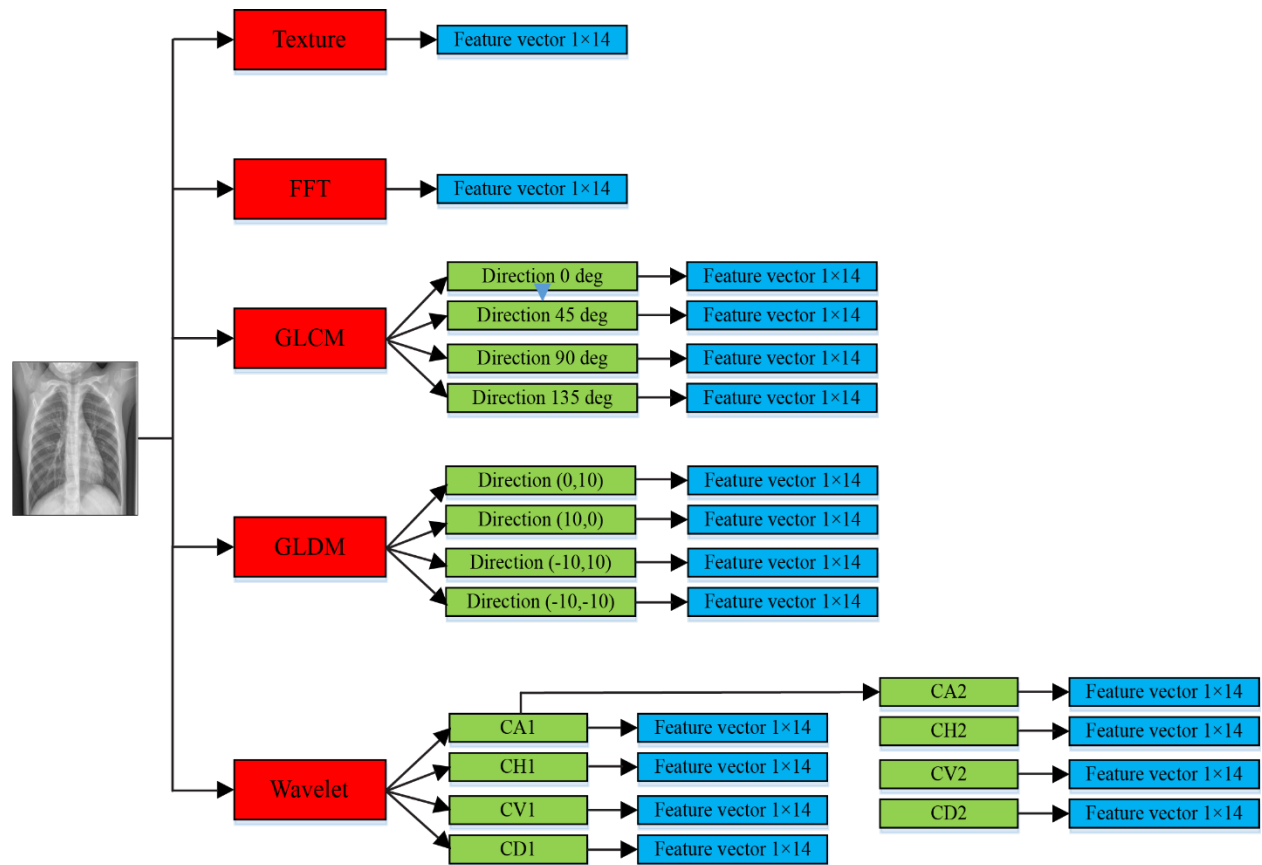
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Supplementary Figures:



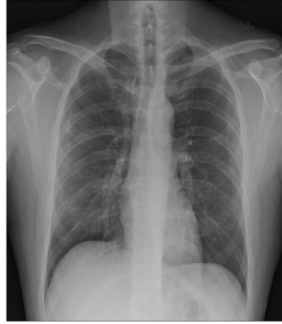
Supplementary Figure 1: The proposed feature extraction schematic diagram



A

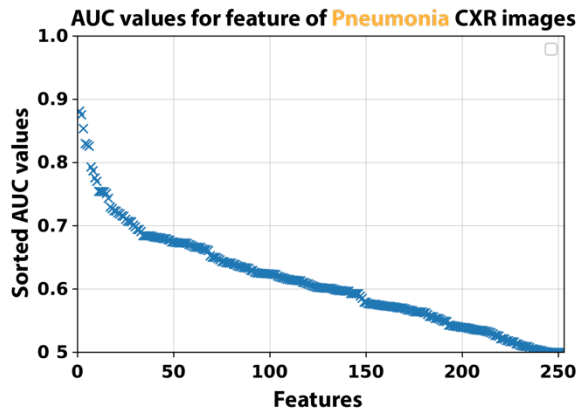
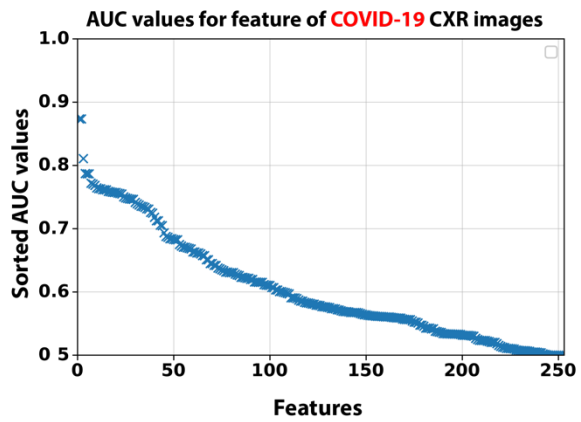
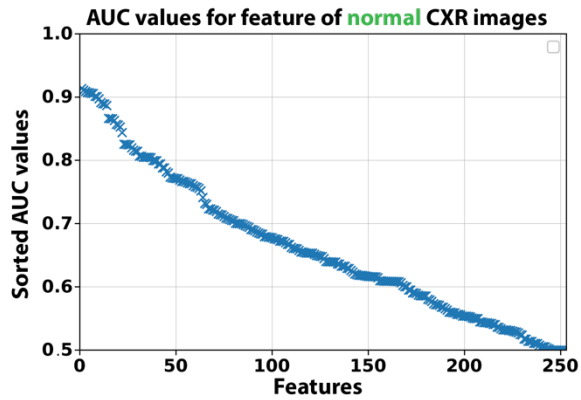
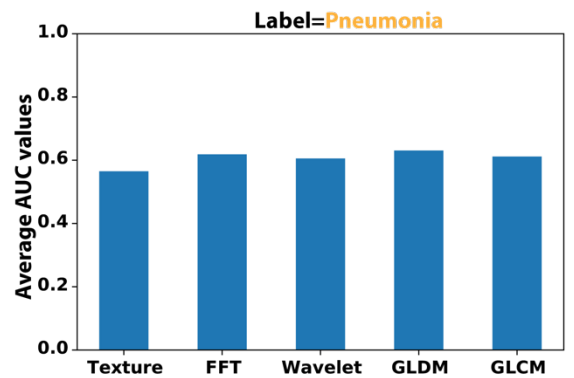
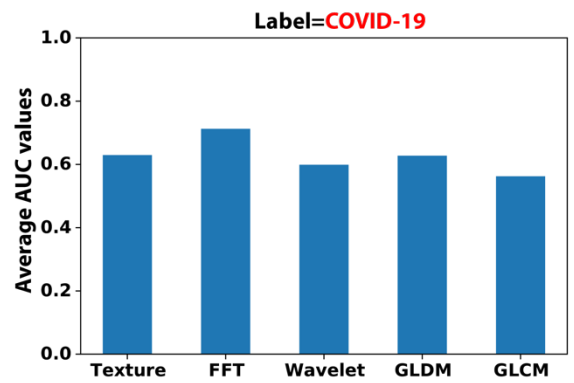
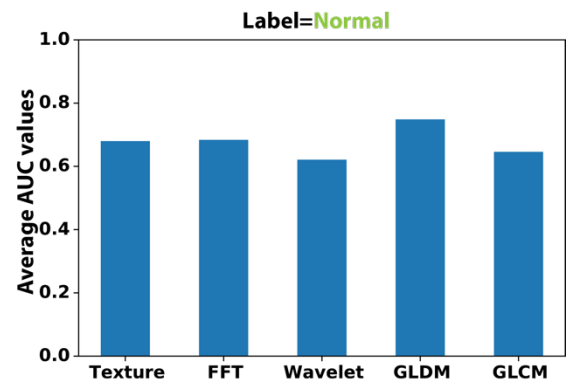


B

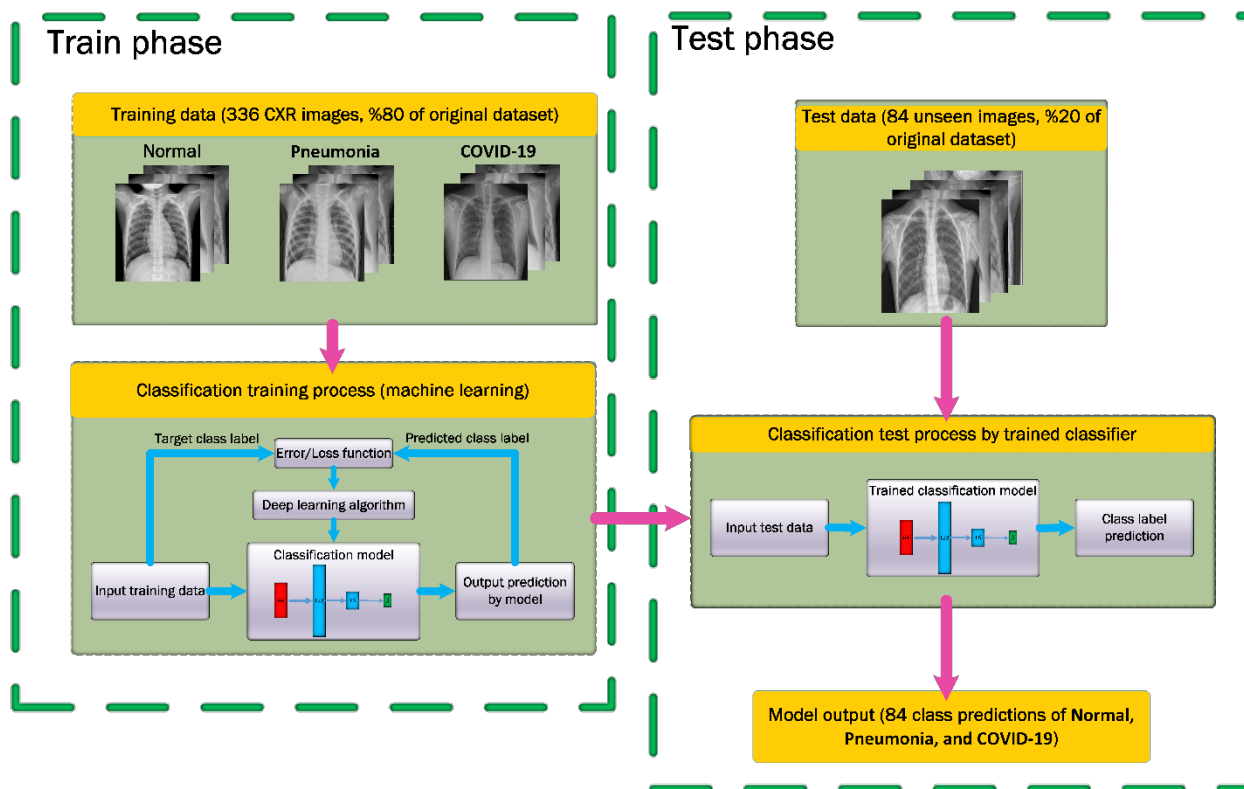


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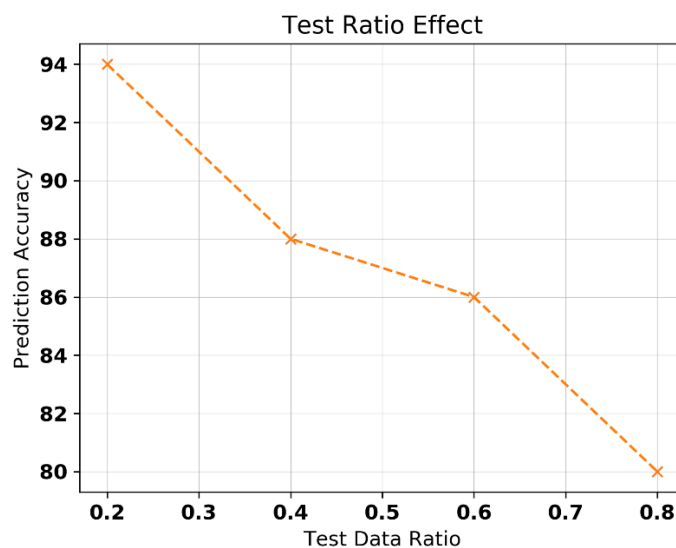
Supplementary Figure 2: Examples of A) Normal, B) Pneumonia, and C) COVID-19

A**B**

Supplementary Figure 3: A) The performance of every single feature based on the sorted AUC values for three positive class labels. B) The five feature groups for three target classes, compared with each other based on the average AUC values



Supplementary Figure 4: Schematic diagram of the model training and test process



Supplementary Figure 5: An analysis of how the test ratio affects model prediction accuracy in the test phase