

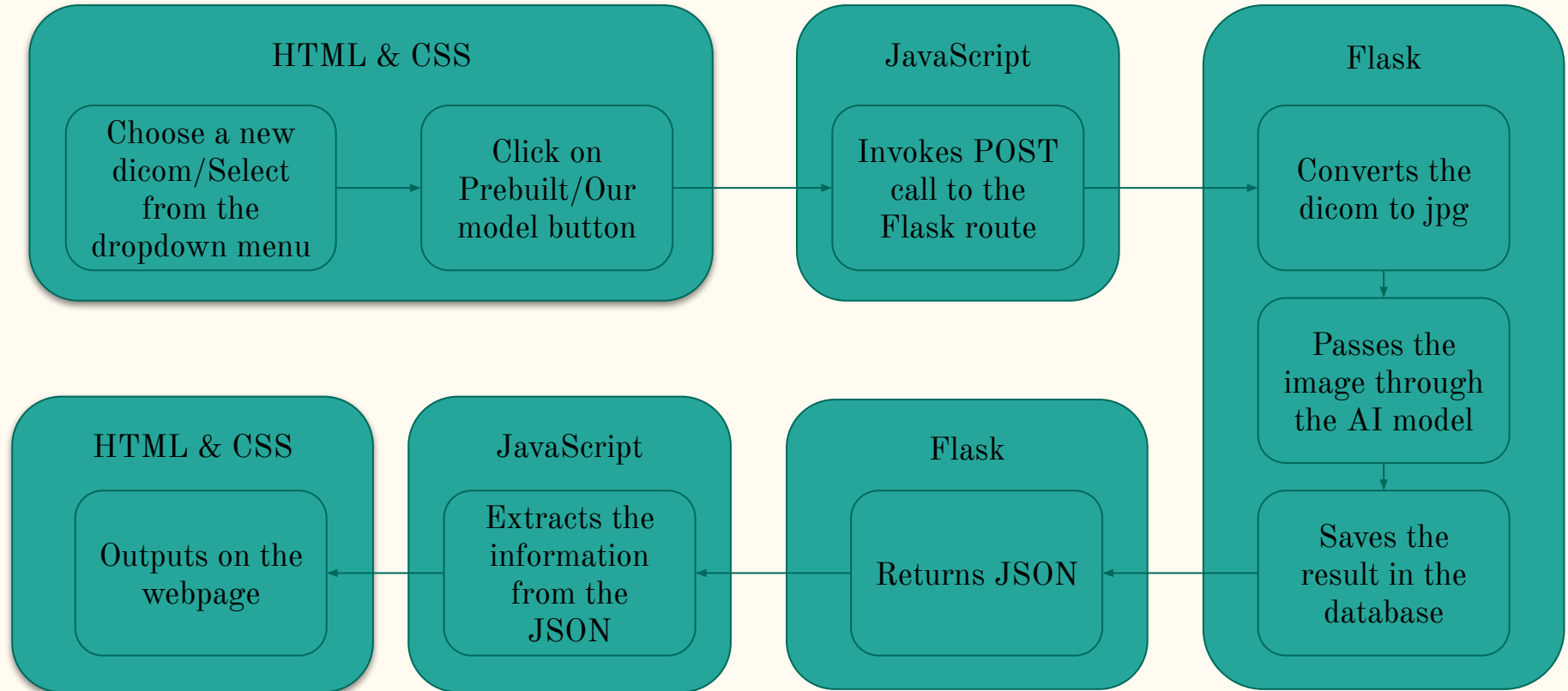


Recorded Final Demonstration

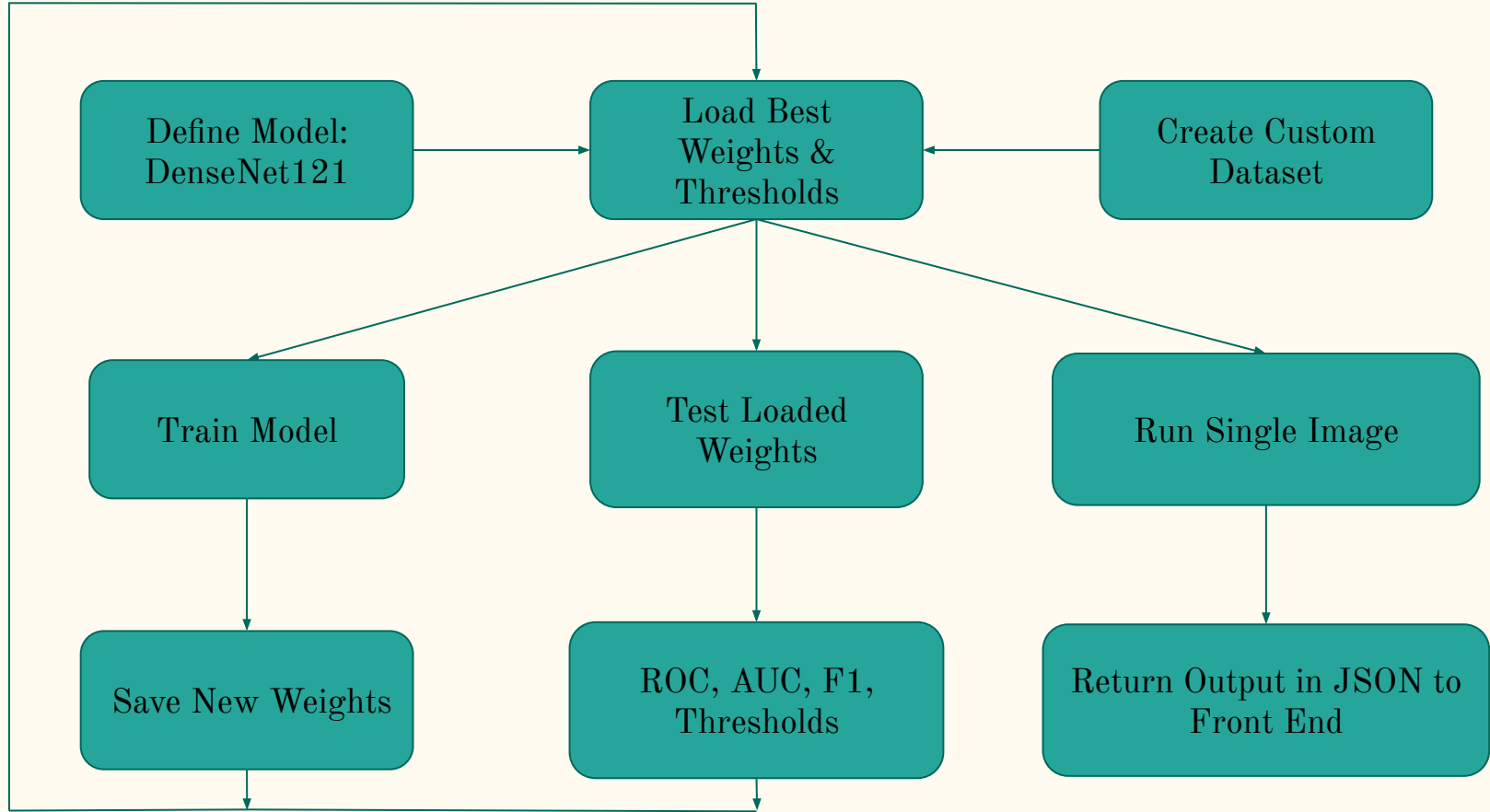
Group 18

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Front-end Flowchart



Model Definition



Validation Testing Results For Our Model

Atelectasis AUC:
0.8015

Cardiomegaly AUC:
0.8201

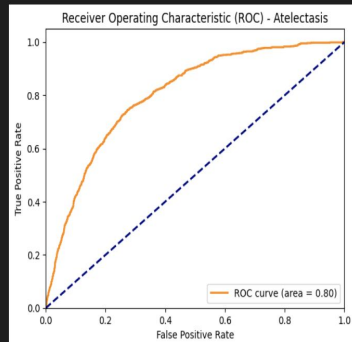
Consolidation AUC:
0.7865

Edema AUC:
0.8773

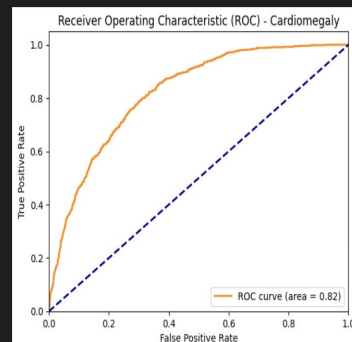
No Finding AUC:
0.8472

Pleural Effusion AUC:
0.9171

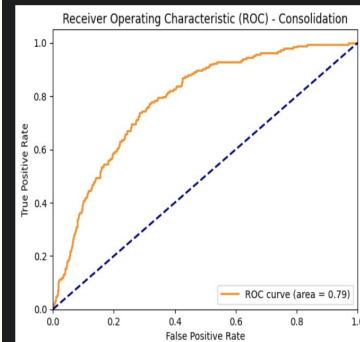
Atelectasis:
AUC: 0.8015
Best Threshold: 0.2058
F1 Score Based on Best Threshold: 0.4746



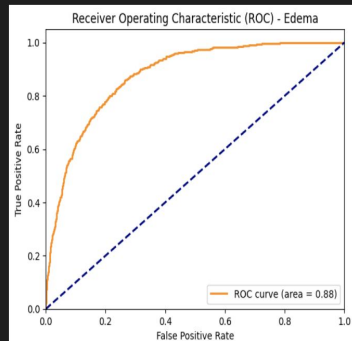
Cardiomegaly:
AUC: 0.8201
Best Threshold: 0.1647
F1 Score Based on Best Threshold: 0.4567



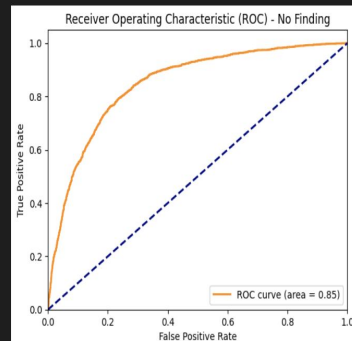
Consolidation:
AUC: 0.7865
Best Threshold: 0.0442
F1 Score Based on Best Threshold: 0.1526



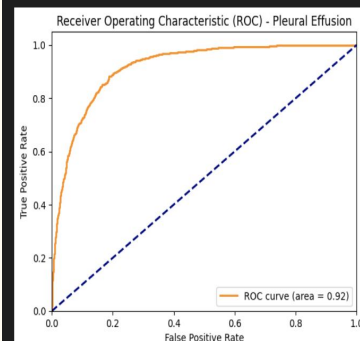
Edema:
AUC: 0.8773
Best Threshold: 0.0669
F1 Score Based on Best Threshold: 0.3904



No Finding:
AUC: 0.8472
Best Threshold: 0.4071
F1 Score Based on Best Threshold: 0.7340



Pleural Effusion:
AUC: 0.9171
Best Threshold: 0.1828
F1 Score Based on Best Threshold: 0.6594



Single Image Test Results

Disease	Model Output	Model Prediction	True Labels
Atelectasis	0.0318267	0	0
Cardiomegaly	0.124805	0	0
Consolidation	0.0200314	0	0
Edema	0.258357	1	1
No Finding	0.331922	0	0
Pleural Effusion	0.00553248	0	0

FINAL REPORT

HISTORY: Postoperative decreased saturation.

FINDINGS:

- No previous images. Cardiac silhouette is within normal limits.
- There is engorgement of indistinct pulmonary vessels **bilaterally**, more prominent on the **right**, consistent with asymmetric **pulmonary edema**.
- No evidence of acute focal pneumonia.

