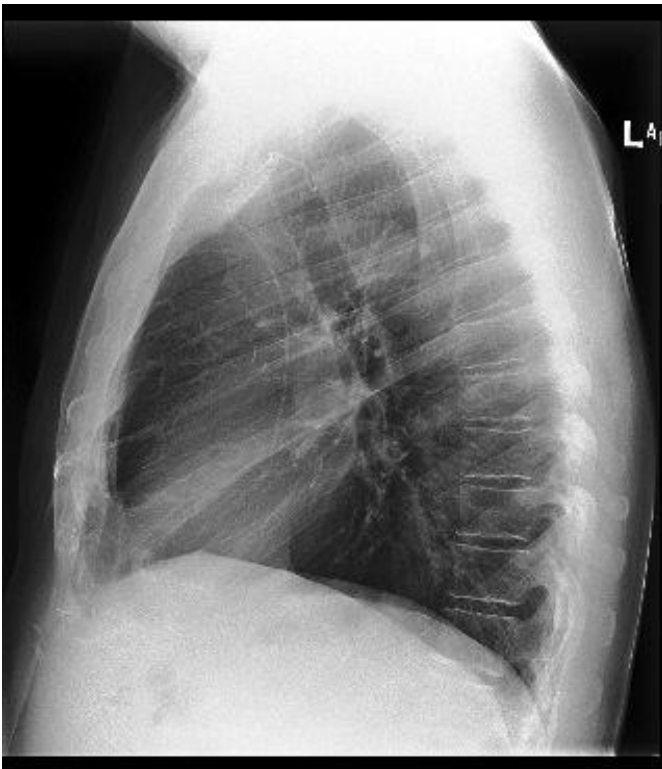
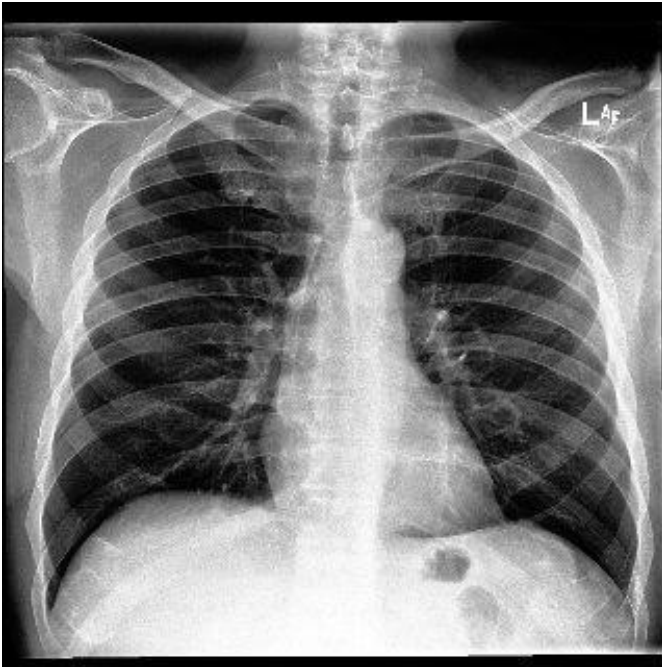


Chest X-Ray Analysis

Fateme Sadat Haghpanah

Spring 2019



**Chest X-Ray image samples
from the dataset.
Top: Frontal View
Bottom: Lateral View**

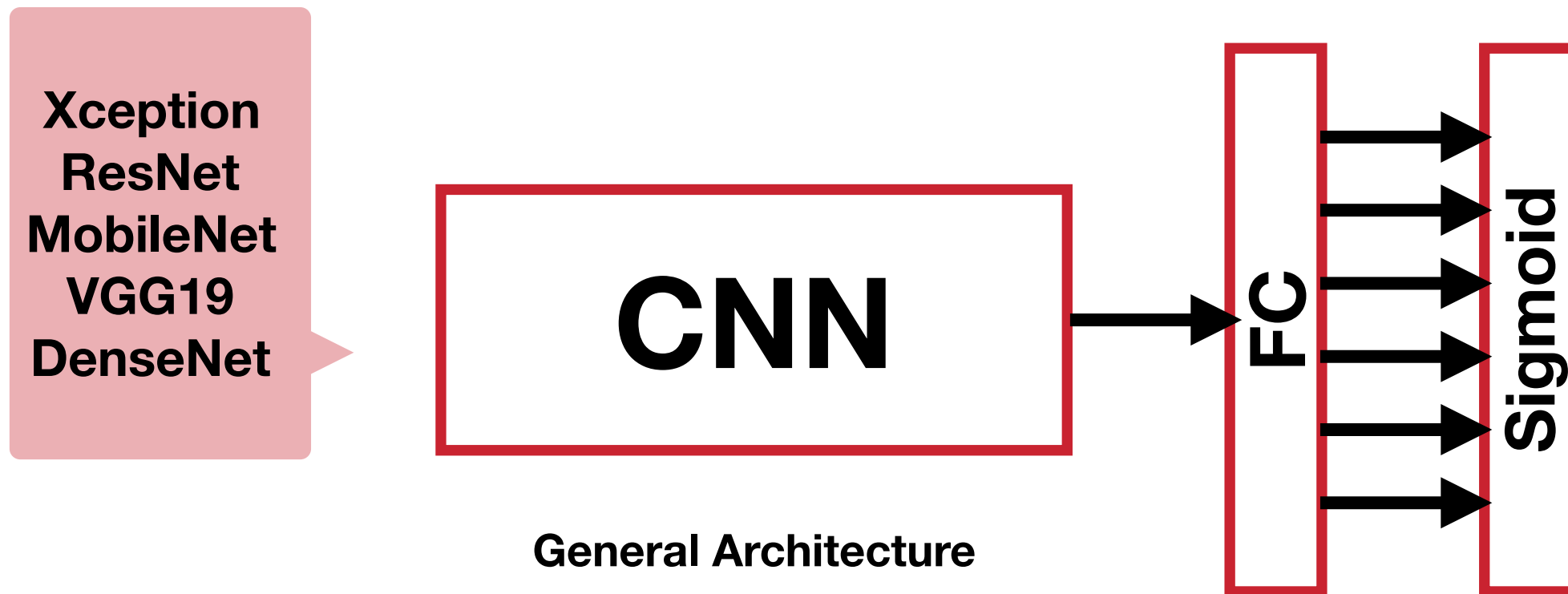
Pathology	Positive (%)	Uncertain (%)	Negative (%)
No Finding	16627 (8.86)	0 (0.0)	171014 (91.14)
Enlarged Cardiom.	9020 (4.81)	10148 (5.41)	168473 (89.78)
Cardiomegaly	23002 (12.26)	6597 (3.52)	158042 (84.23)
Lung Lesion	6856 (3.65)	1071 (0.57)	179714 (95.78)
Lung Opacity	92669 (49.39)	4341 (2.31)	90631 (48.3)
Edema	48905 (26.06)	11571 (6.17)	127165 (67.77)
Consolidation	12730 (6.78)	23976 (12.78)	150935 (80.44)
Pneumonia	4576 (2.44)	15658 (8.34)	167407 (89.22)
Atelectasis	29333 (15.63)	29377 (15.66)	128931 (68.71)
Pneumothorax	17313 (9.23)	2663 (1.42)	167665 (89.35)
Pleural Effusion	75696 (40.34)	9419 (5.02)	102526 (54.64)
Pleural Other	2441 (1.3)	1771 (0.94)	183429 (97.76)
Fracture	7270 (3.87)	484 (0.26)	179887 (95.87)
Support Devices	105831 (56.4)	898 (0.48)	80912 (43.12)

**The dataset consists of 14 labeled observations.
The number of studies which contain these
observations in the training set is reported.**

Chest X-Ray Analysis

Fateme Sadat Haghpanah

Spring 2019



	Atelectasi	Cardiome	Consolida	Edema	Pleural	Overall
Accuracy	0.5609097	0.7532660	0.7382947	0.7311659	0.8450637	0.7361106
Precision	0.5453035	0.7792685	0.6007162	0.7791095	0.8761893	0.7686925
Recall	0.7022712	0.9019357	0.2613946	0.8668404	0.9396912	0.8338039
F-score	0.6139126	0.8361269	0.3642779	0.8206369	0.9068299	0.7999254
AUROC	0.5993699	0.7706793	0.7039957	0.7130955	0.8077929	0.8000666

Result on validation set