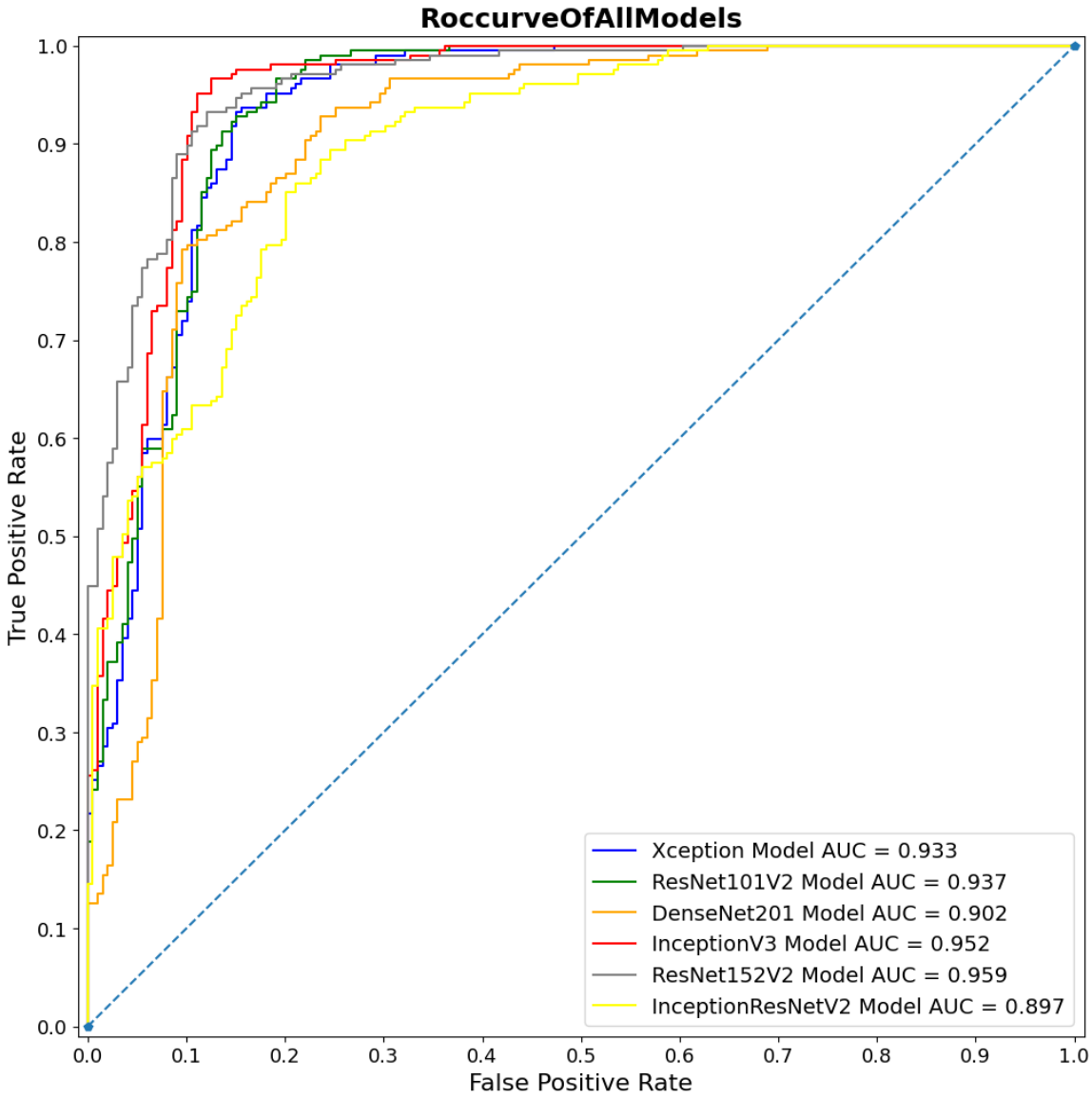
Source code:

https://github.com/MKarimpour1997/thesProjectPET-CT

The table below shows the average performance of the CNN models on five folds of the training set.

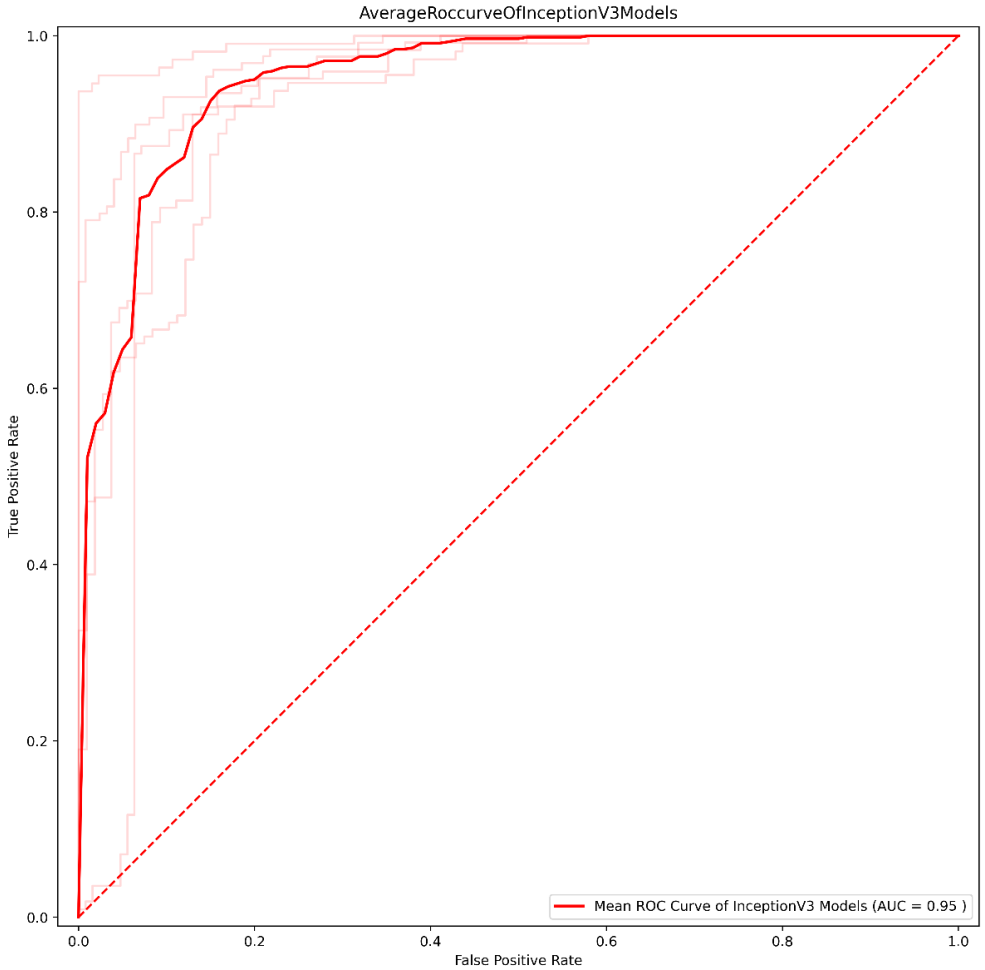
Model	Accuracy (%)	Precision (%)	Sensitivity (%)	Specificity (%)	AUC (%)
InceptionV3 model	89.90	89.83	90.42	89.30	95.04
ResNet101V2 model	88.00	85.88	92.82	82.90	94.62
Xception model	88.87	87.08	92.05	85.56	96.01
DenseNet201 model	90.17	94.42	85.91	85.91	95.38
ResNet152V2 model	92.07	91.74	92.91	91.28	96.87
InceptionResNetV2 model	89.43	87.48	92.88	85.87	93.10

ROC curves showing the performance of all six CNN models on the test set are plotted below.



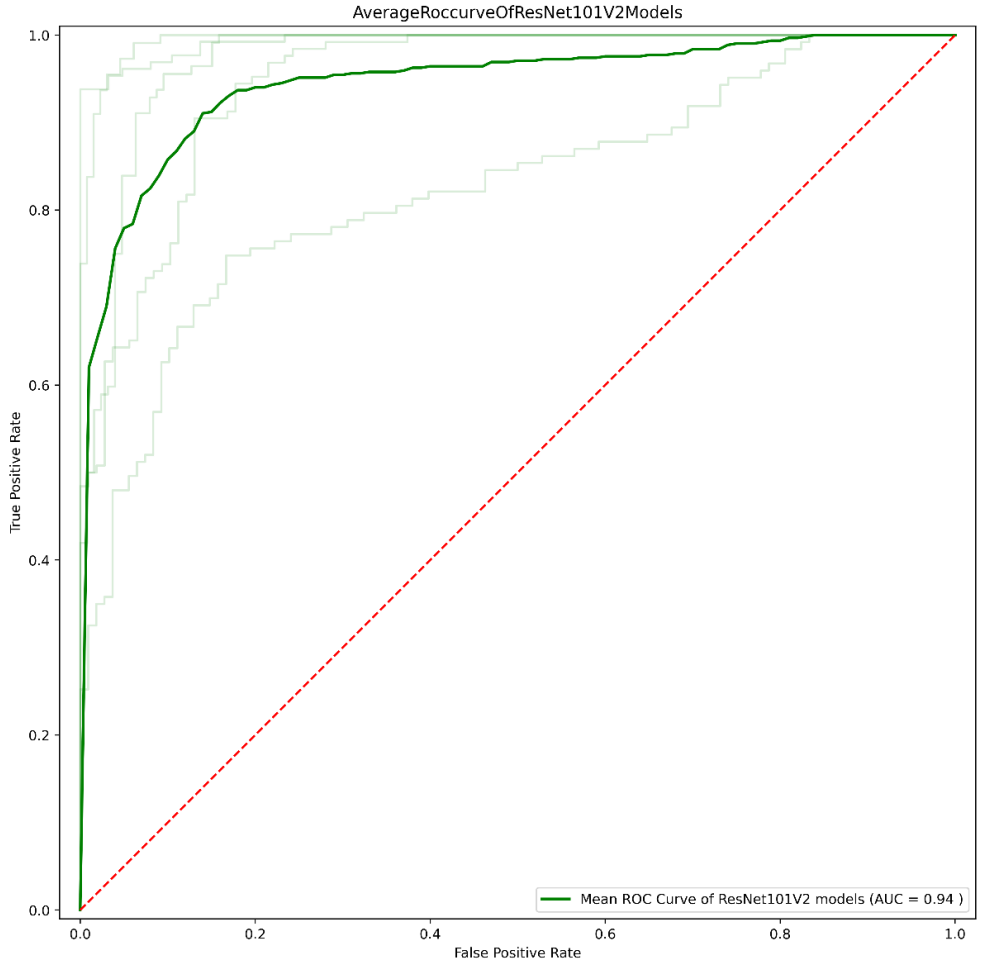
InceptionV3 Model

The InceptionV3 model's performance on the five folds of the training set is plotted below. The bold red line shows the average performance of the model on the five folds.



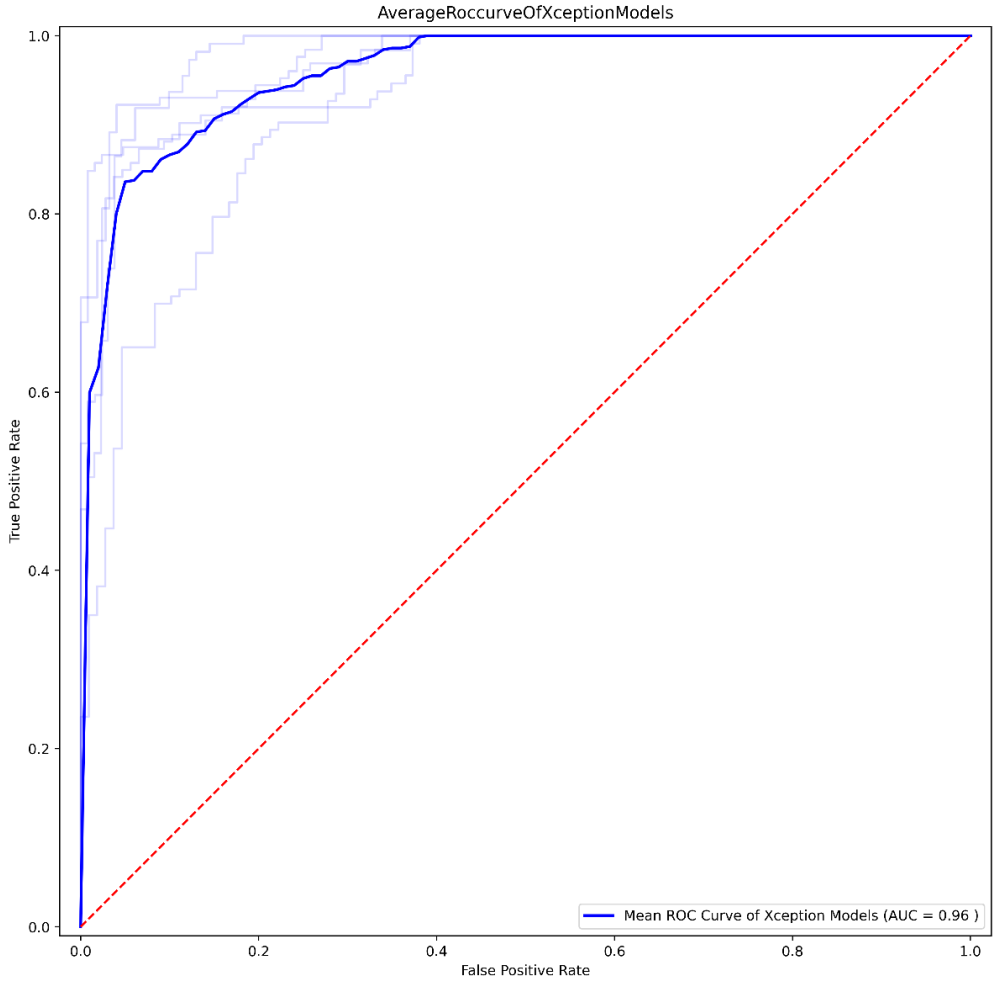
ResNet101V2 Model

The ResNet101V2 model's performance on the five folds of the training set is plotted below. The bold green line shows the average performance of the model on the five folds.



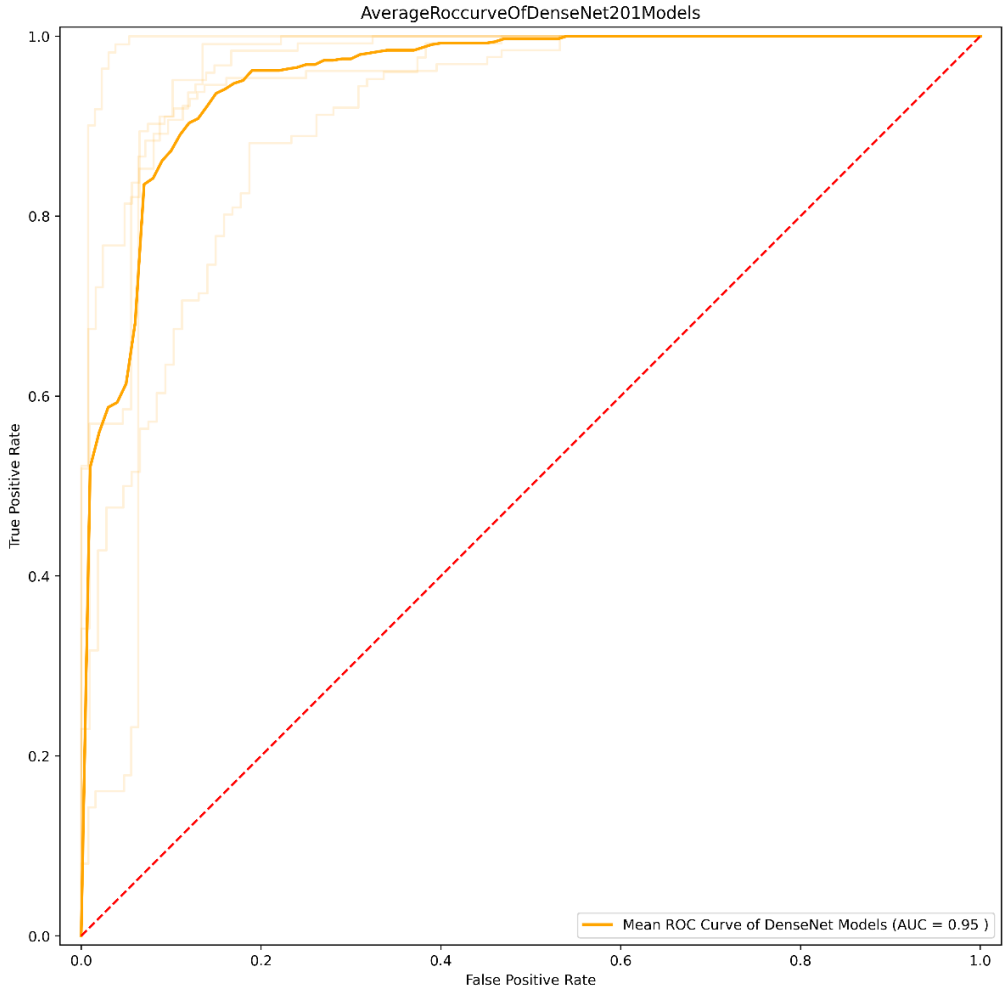
Xception Model

The Xception model's performance on the five folds of the training set is plotted below. The bold blue line shows the average performance of the model on the five folds.



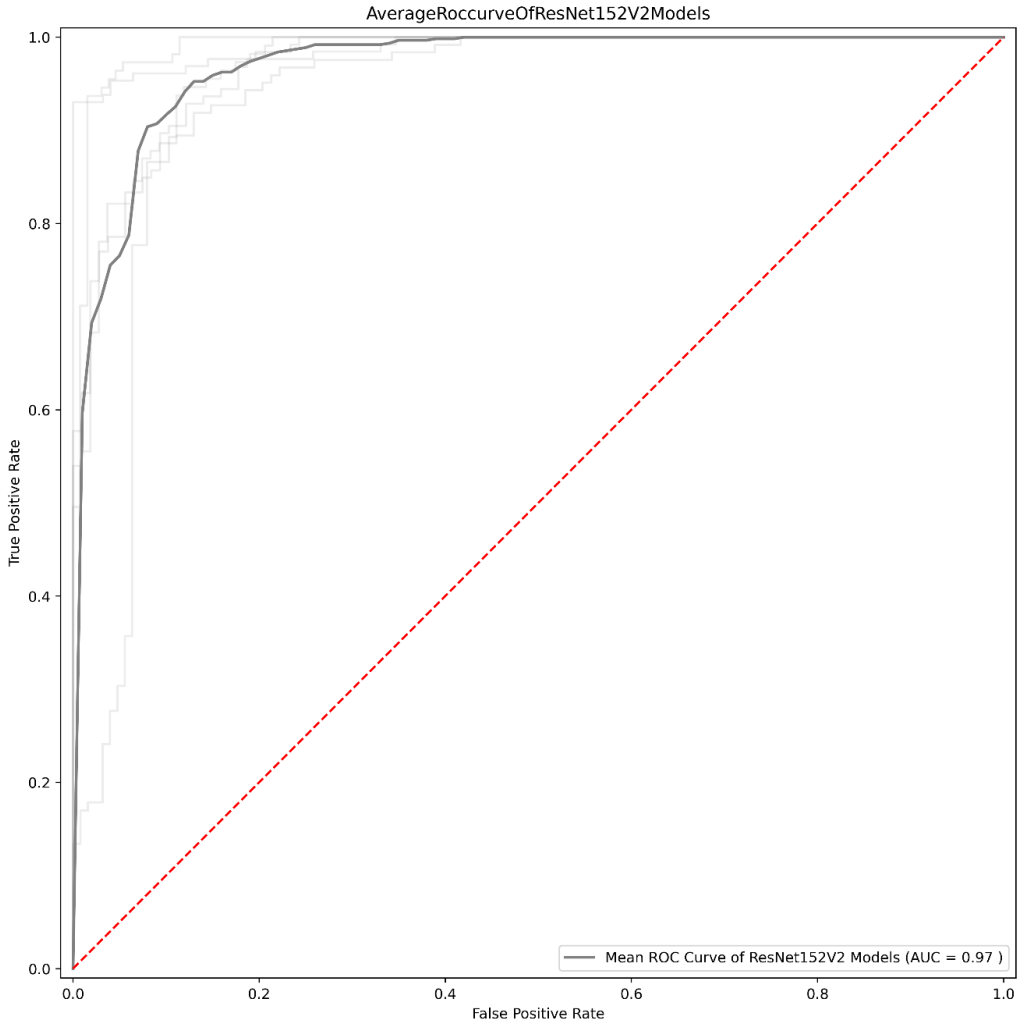
DenseNet201 Model

The DenseNet201 model's performance on the five folds of the training set is plotted below. The bold blue line shows the average performance of the model on the five folds.



ResNet152V2 Model

The ResNet152V2 model's performance on the five folds of the training set is plotted below. The bold grey line shows the average performance of the model on five folds.



InceptionResNetV2 Model

The InceptionResNetV2 model's performance on the five folds of the training set is plotted below. The bold yellow line shows the average performance of the model on five folds.