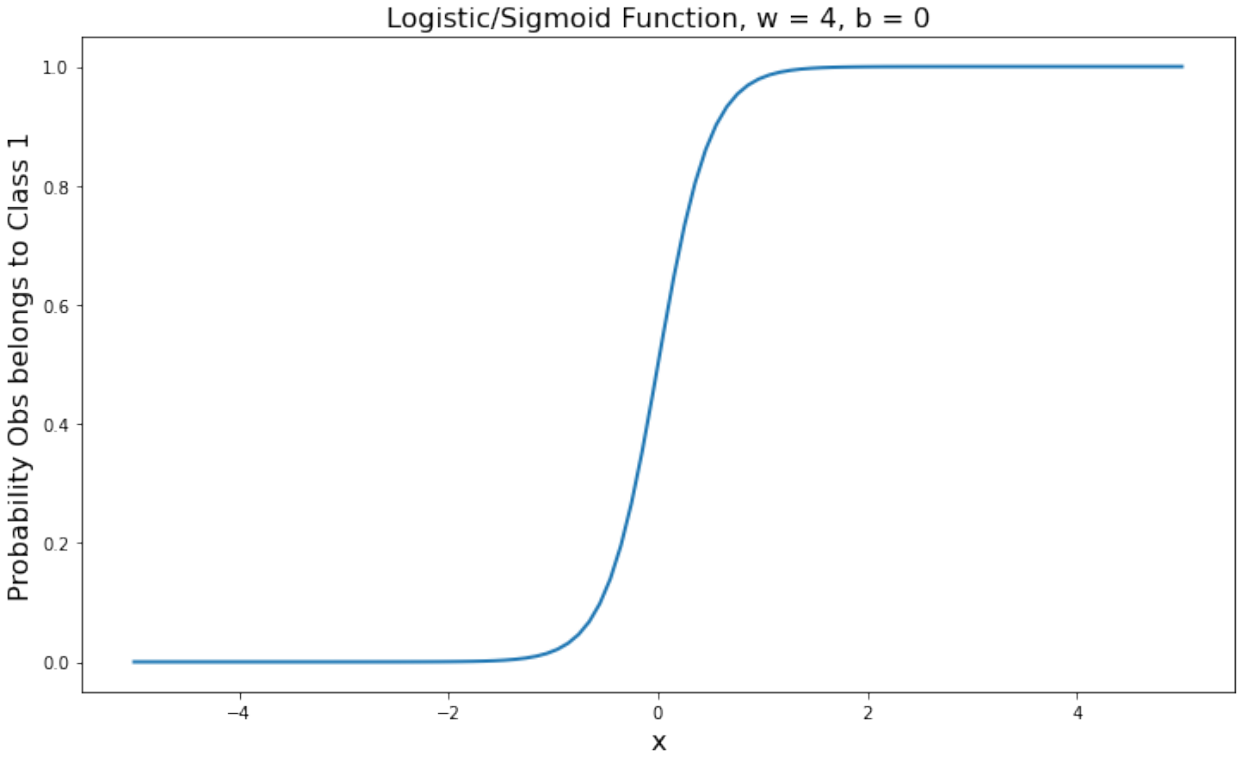
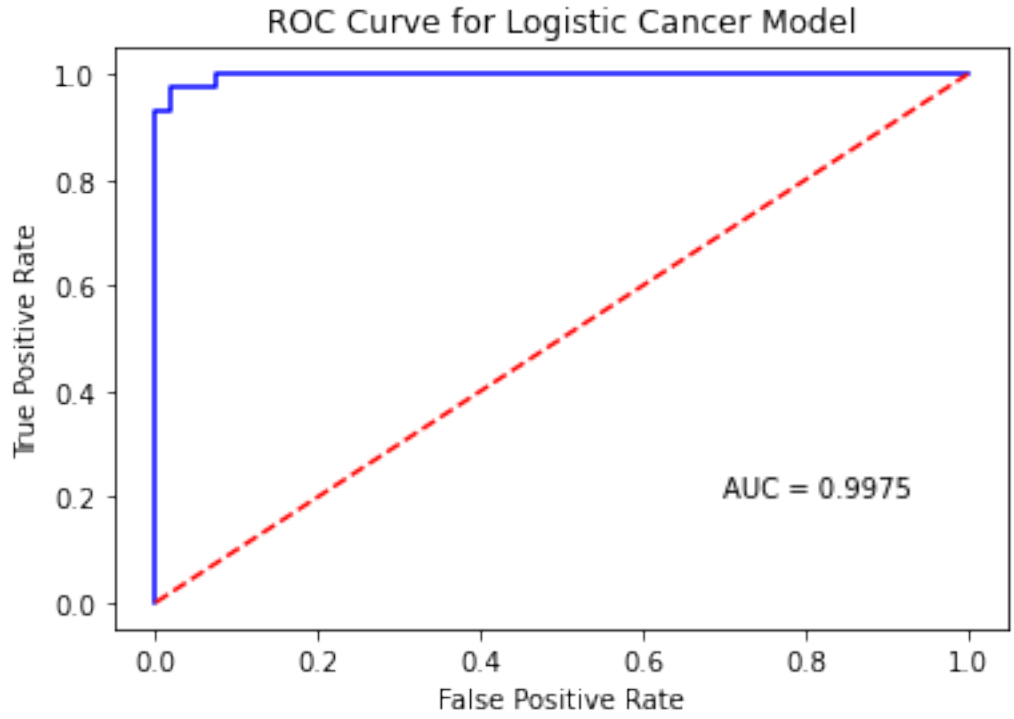
Peer Review Project Week 3





```
# Then compute and print the precision and recall metrics

# Manual Prediction
yhat = gen_logistic(data.x_test, w = LogReg.coef_, b = LogReg.intercept_)

y_pred = [int(round(yhat[i])) for i in range(len(yhat))]# Fill the correctly generated predictions in t

# your code here

precision = calculate_precision(data.y_test, y_pred)
recall = calculate_recall(data.y_test, y_pred)

print('Model Precision : %0.2f' % precision)
print('Model Recall : %0.2f' % recall)
```

```
[8.08347971e-01 2.05338395e-09 1.57305525e-03 9.96955429e-01
 9.99169334e-01 3.44353862e-10 5.17642270e-13 9.81817312e-03
 9.96843432e-01 9.87084935e-01 9.31550279e-01 4.38822098e-04
 9.89309693e-01 1.45522637e-01 9.97086015e-01 1.63416664e-03
 9.96943007e-01 9.99649863e-01 9.98089919e-01 4.22899764e-08
```

```
 9.89309693e-01 1.45522637e-01 9.97086015e-01 1.63416664e-03
 9.96943007e-01 9.99649863e-01 9.98089919e-01 4.22899764e-08
 8.43242498e-01 9.84644727e-01 2.52951655e-10 9.93504437e-01
 9.87120281e-01 9.99331556e-01 9.96820902e-01 9.88648479e-01
 9.92358677e-01 3.71267125e-09 9.91636415e-01 9.98640468e-01
 9.74000469e-01 9.76197254e-01 9.97631477e-01 9.93312373e-01
 2.95368583e-03 9.93750428e-01 2.88948356e-06 7.38933728e-01
 9.96743660e-01 7.85316155e-04 9.97666504e-01 9.84089411e-01
 9.98213336e-01 9.28200709e-01 9.98076607e-01 9.88343375e-01
 8.91452333e-01 9.95959485e-01 4.60391702e-05 6.67594814e-10
 8.68733218e-01 9.99391811e-01 9.97651989e-01 9.70681943e-01
 9.96438210e-01 5.77047998e-15 6.52773251e-01 9.99345790e-01
 9.78574174e-01 5.65631758e-08 2.54159917e-12 9.08637910e-01
 9.94726899e-01 8.20251143e-01 1.18955999e-05 1.22011150e-09
 9.97694251e-01 9.69418708e-01 3.14743010e-02 3.41164691e-05
 9.97554507e-01 1.14340088e-01 9.57123970e-01 9.97202910e-01
 9.54345574e-01 5.08813146e-01 9.97712879e-01 9.94778203e-01
 1.07771716e-03 9.96529388e-01 6.58088580e-01 4.59856160e-12
 9.95622539e-04 3.50492149e-02 1.47864190e-03 1.44872637e-07
 9.92016252e-01 9.94546654e-01 9.82015930e-01 8.98105860e-01
 8.76227003e-01 9.97007268e-01 9.98368646e-01 9.96106430e-01
 1.95079054e-08 1.37174961e-06 9.99526629e-01 7.83314991e-05
 1.16223322e-04 9.99723343e-01 1.70203060e-09 1.31116746e-03
 8.93478541e-01 9.28494179e-01 9.85366193e-01 6.09574734e-19
 9.72076083e-01 8.88781462e-01 1.55764655e-04 9.95477375e-01
 2.52155639e-01 1.56685872e-29 8.98332591e-01 2.34098256e-11
 9.98794112e-01 8.87432537e-01 9.98276415e-01 1.08829430e-03
 2.80599510e-01 9.97712004e-01 9.86091202e-01 1.73837607e-05
 9.35846948e-01 6.17975466e-10 1.04541736e-03 9.74692359e-01
 9.95098052e-01 6.17010394e-09 2.43983671e-14 6.02310858e-04
 8.34443286e-01 9.97400569e-01 9.56485848e-01 5.33358523e-02
 9.40270000e-01 9.93240252e-01 8.52305971e-01 9.02709181e-03
 9.88969601e-01 1.83770554e-15 9.99210918e-01]
Model Precision : 0.96
Model Recall : 0.98
```