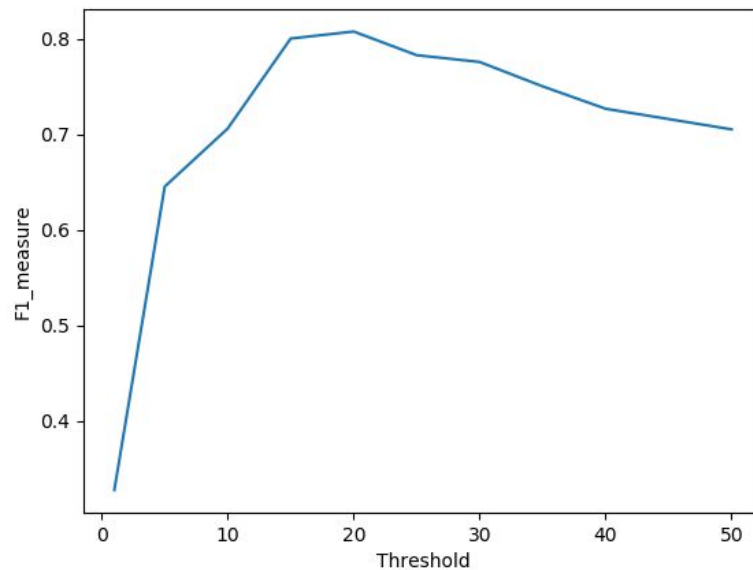


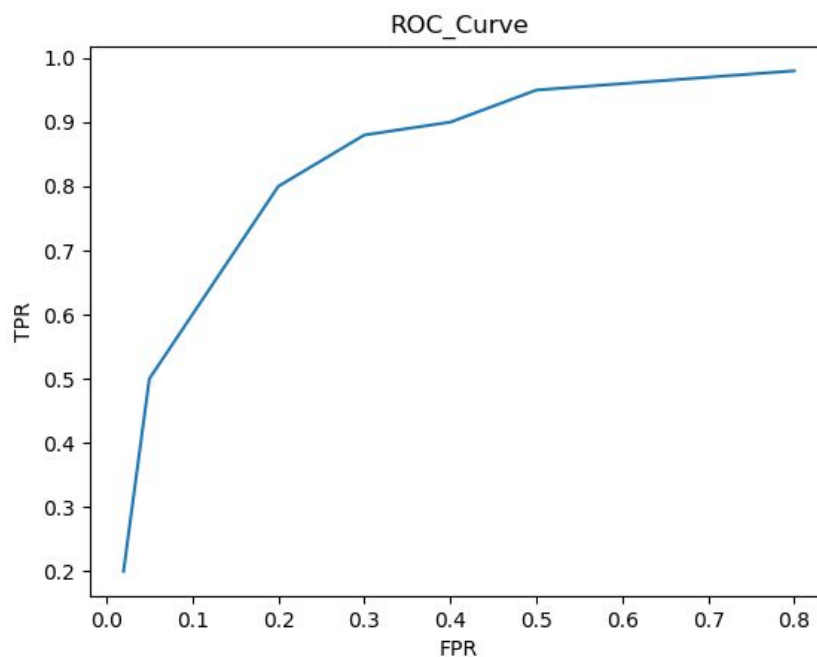
1.

For different thresholds, the precision ratios corresponding to 1, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 are 0.90909, 0.90909, 0.85714, 0.8, 0.74576, 0.69231, 0.65517, 0.61538, 0.58084, 0.55056 respectively, the recall ratios are 0.2, 0.5, 0.6, 0.8, 0.88, 0.9, 0.95, 0.96, 0.97, 0.98.



From the above F1 graph can be found, when the threshold is 20, the F1 value is the highest, F1 score means the harmonic mean of precision and sensitivity, So the threshold is equal to 20 is the most appropriate.

2.



3.

