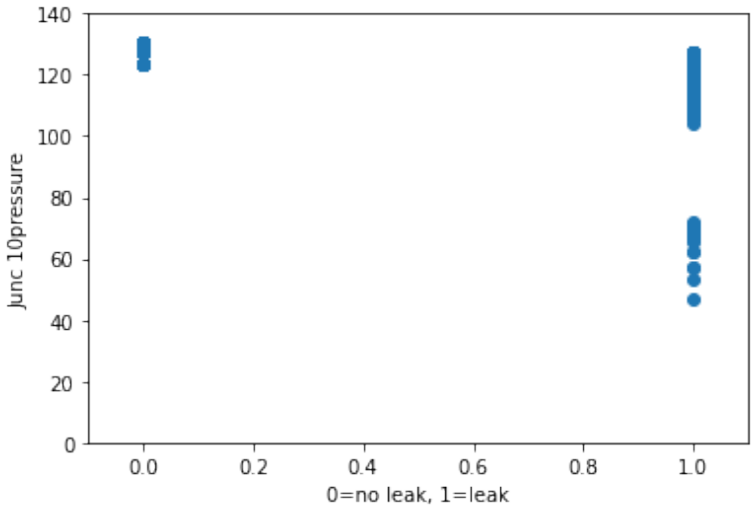
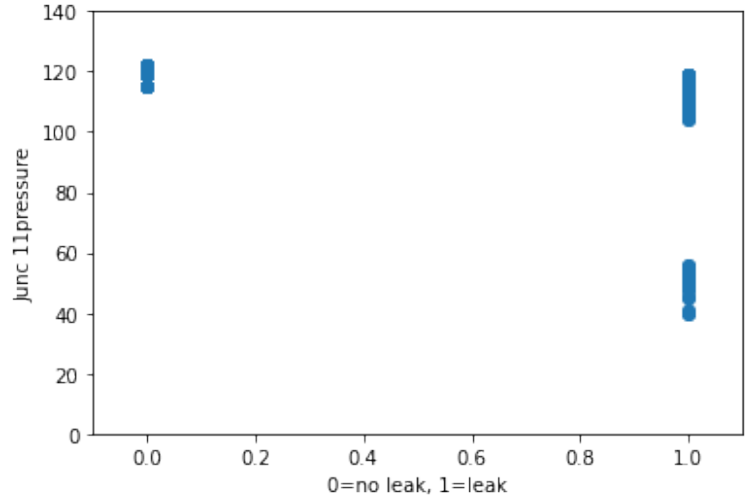
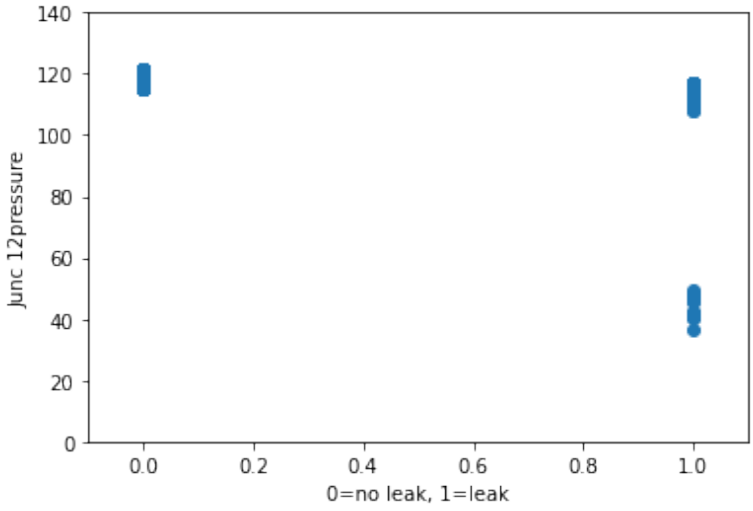
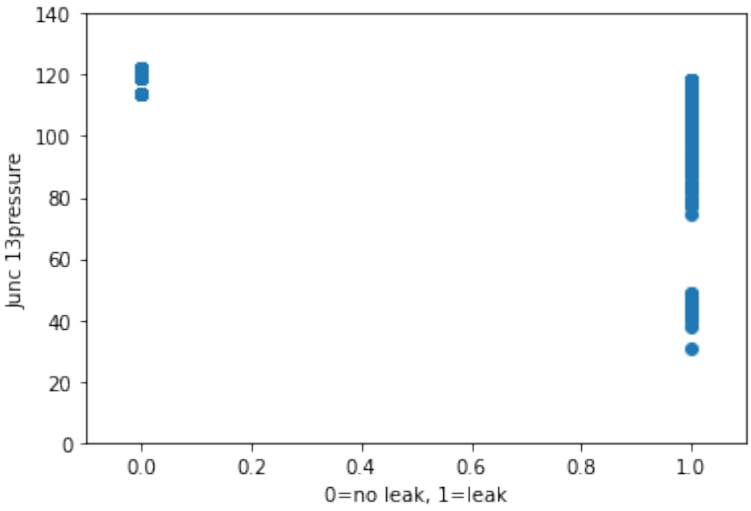
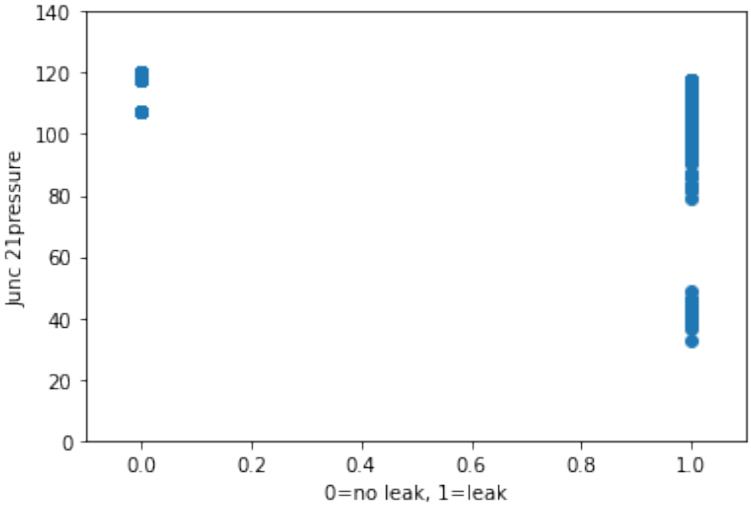
Plots of Pressure in Leak and non-leak cases of Training dataset

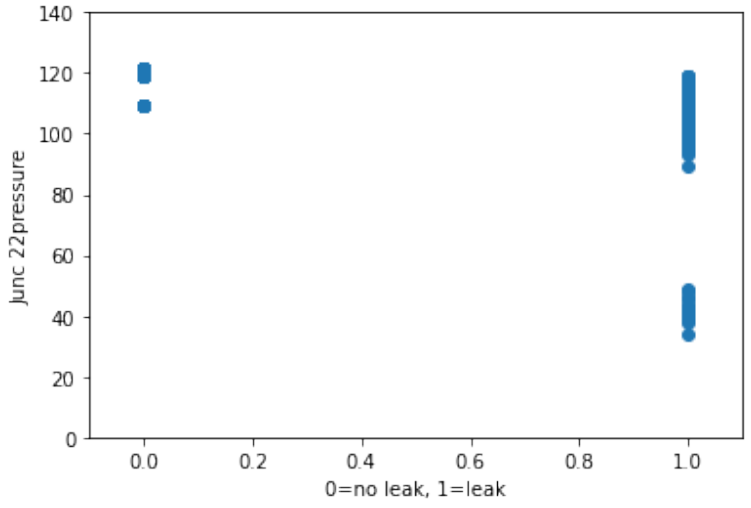


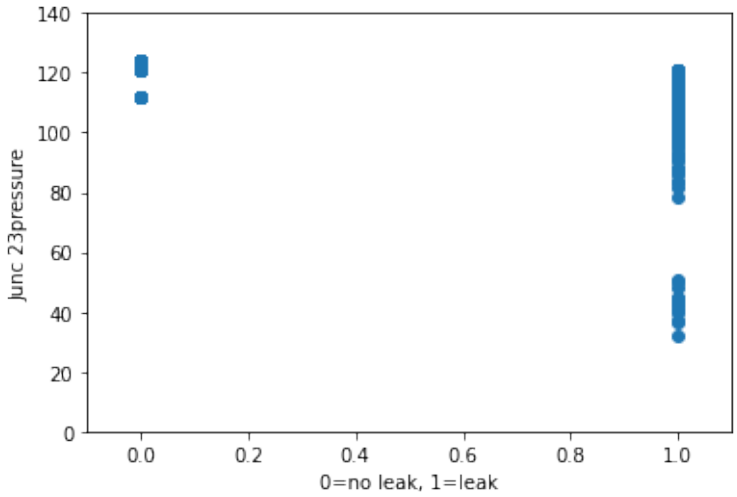


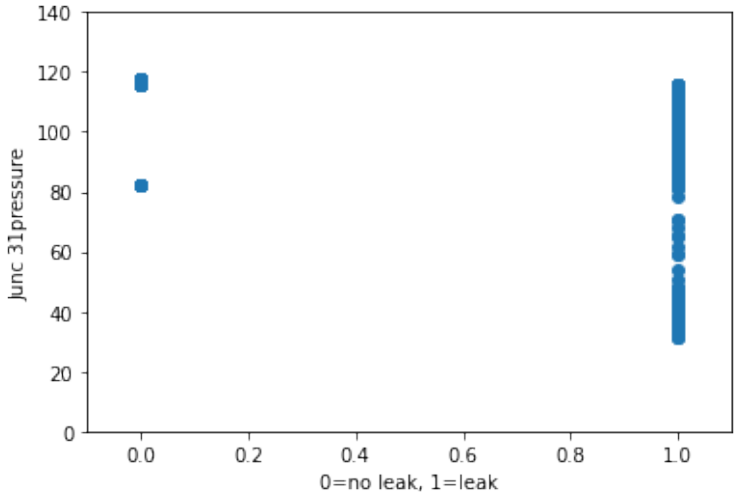


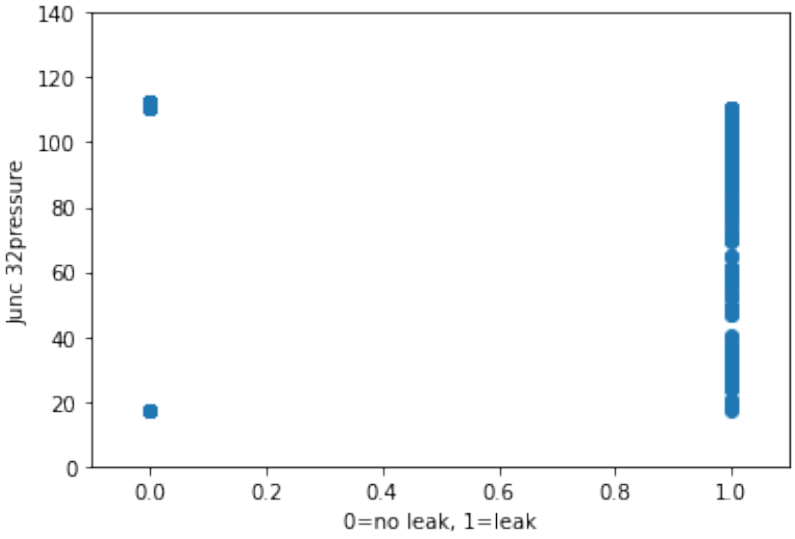

Junc 13pressure
0=no leak, 1=leak


Junc 21pressure
0=no leak, 1=leak

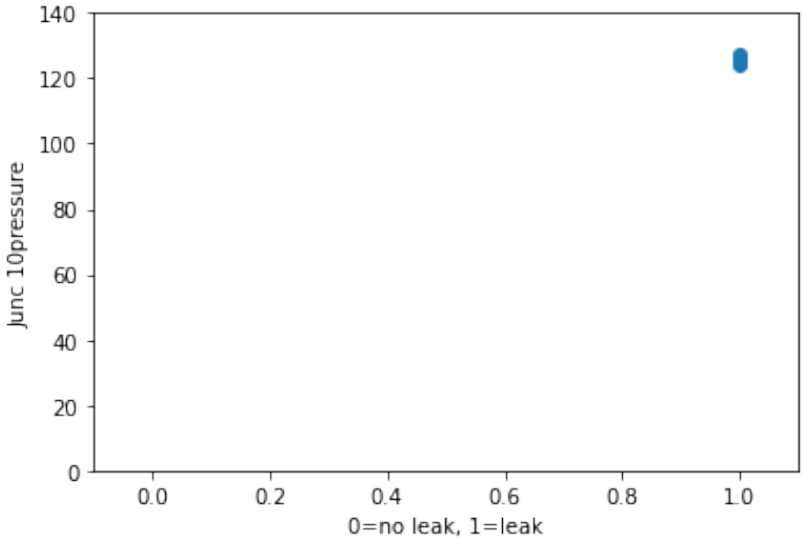

Junc 22pressure
0=no leak, 1=leak

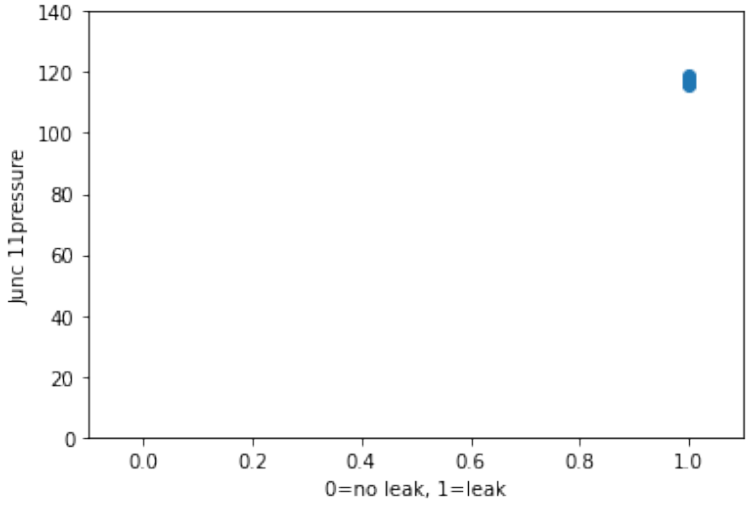

Junc 23pressure
0=no leak, 1=leak

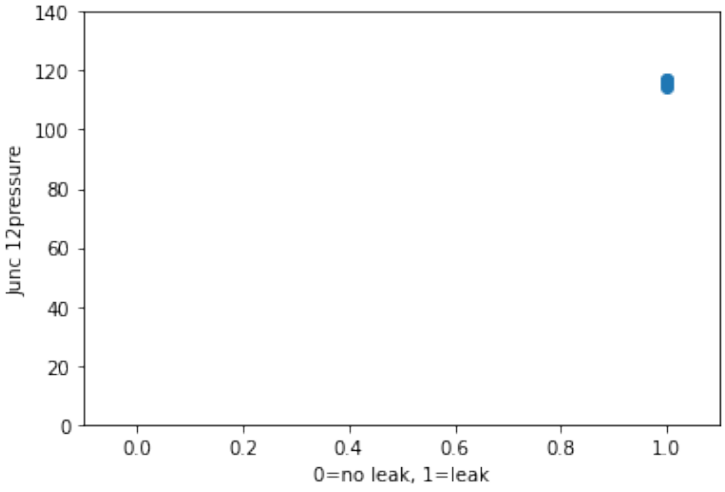

Junc 31pressure
0=no leak, 1=leak

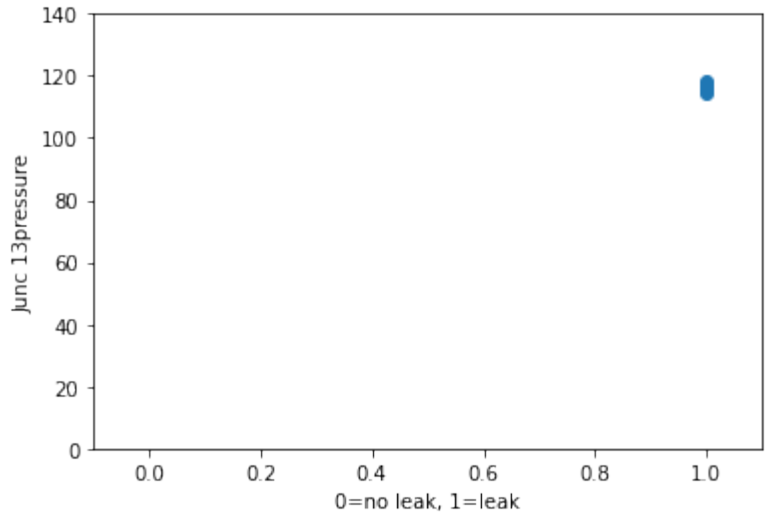

Junc 32pressure
0=no leak, 1=leak

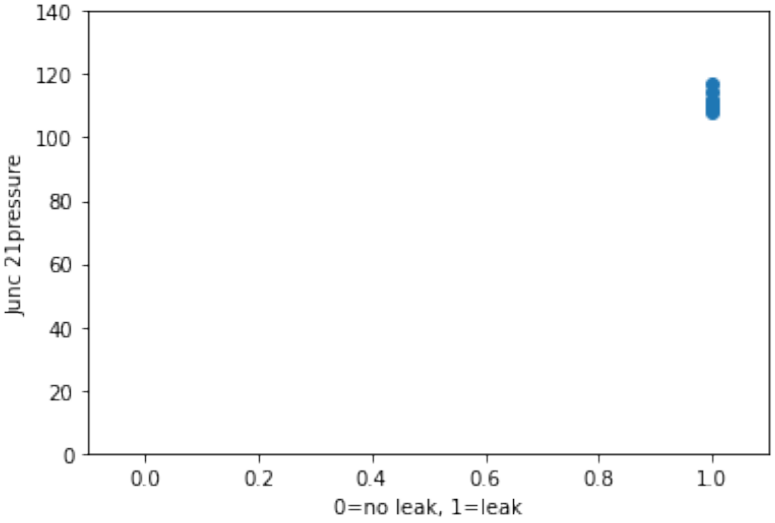
Plots of Pressure for wrongly predicted cases of Test dataset

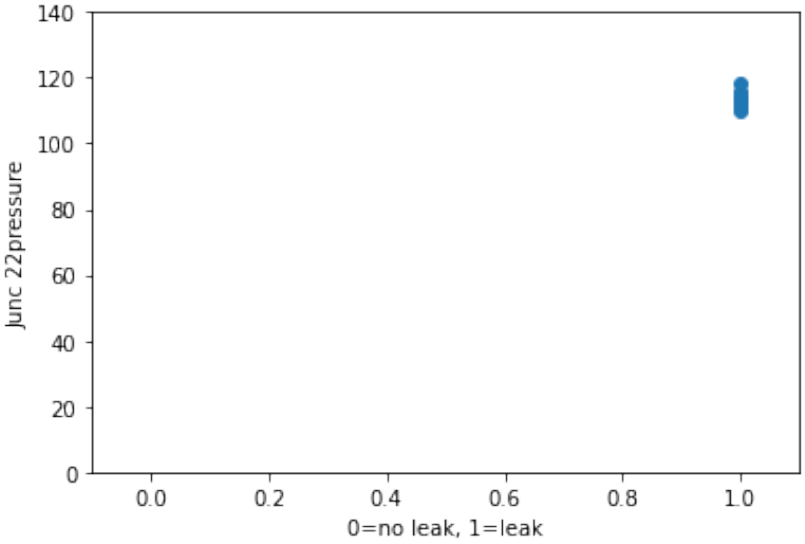


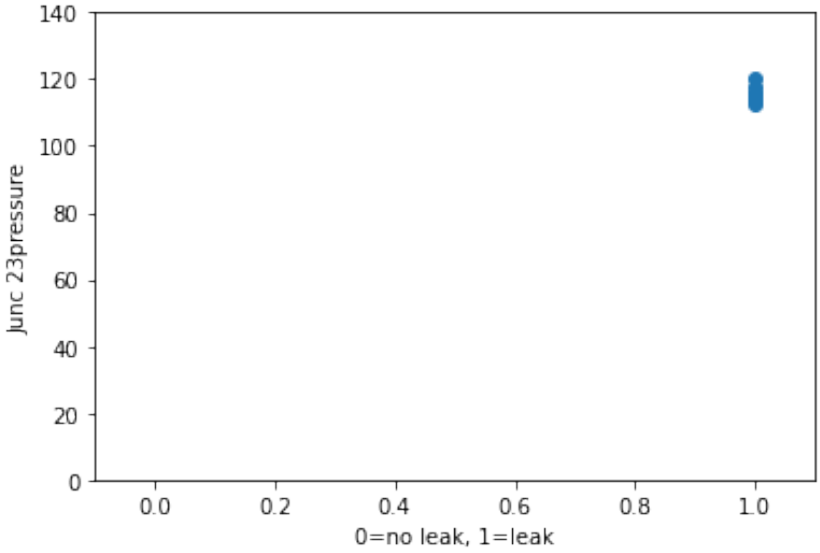


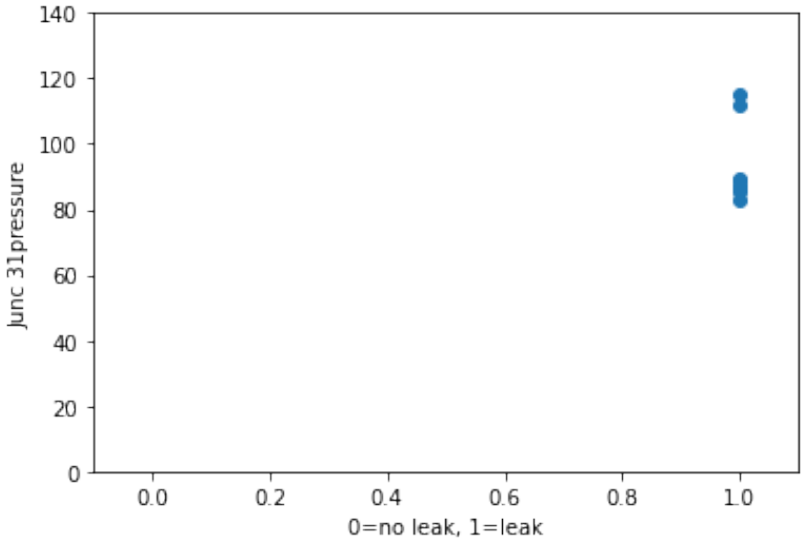


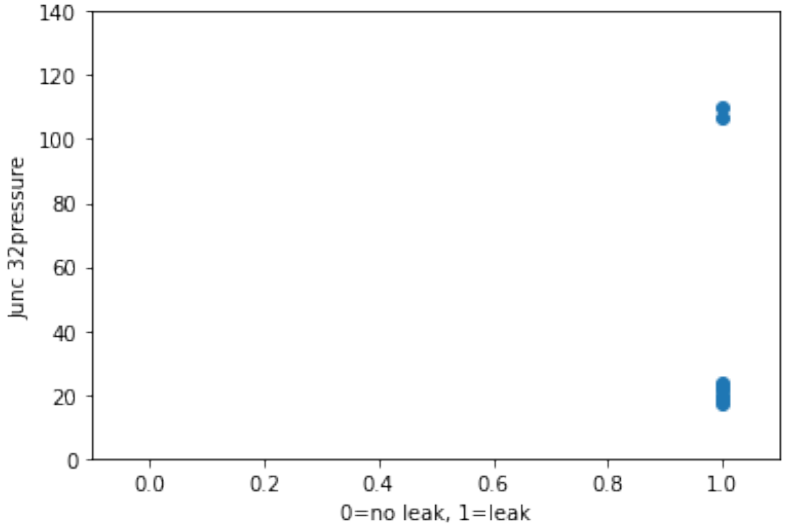

Junc 13pressure
0=no leak, 1=leak


Junc 21pressure
0=no leak, 1=leak


Junc 22pressure
0=no leak, 1=leak


Junc 23pressure
0=no leak, 1=leak


Junc 31pressure
0=no leak, 1=leak


Junc 32pressure
0=no leak, 1=leak

Inferences:

1. The model has classified all non-leak cases correctly
2. The model has wrongly predicted few datapoints as non-leak cases which are originally leak datapoints. Such predictions are when the pressure measurements are very close to that of non-leak cases, as can be seen from the earlier plots.
3. Hence, it can be inferred that prediction of leaks with small pressure variations/ small leaks is less accurate compared to prediction in larger leak cases