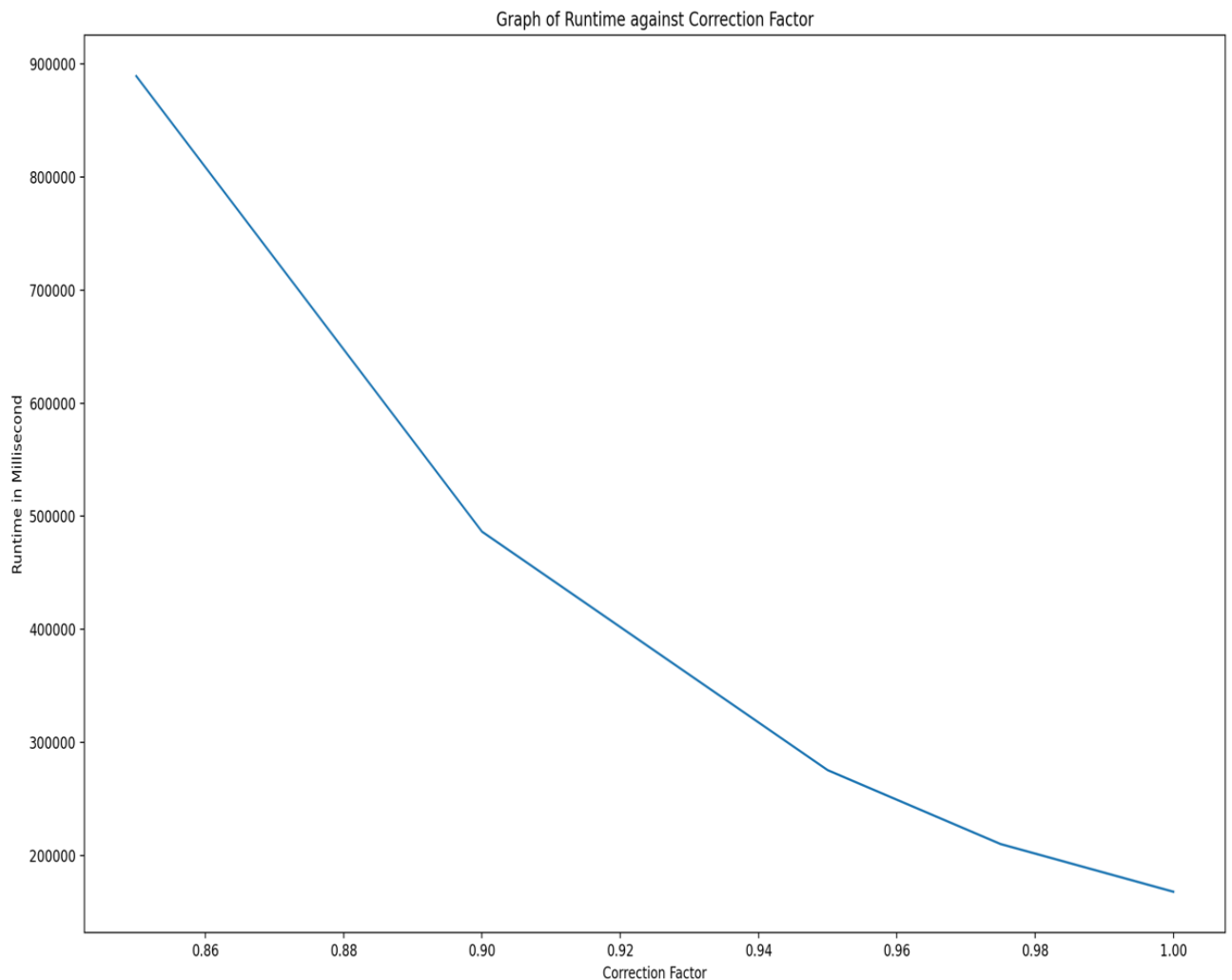# Evaluation and Report

The first graph is a graph of the correction factor against the runtime. The Graph show below shows a negative association between runtime and correction factor. The runtime decreases because as the correction factor increase the minimum support for the first round increases, thus, less item sets are mined in the first round and there is a smaller intermediate output resulting in less time spent processing the smaller number of candidate item sets.

The Graph of output against correction factor shows a negative association between the number of outputs and the correction factor for the first-round output. The is a more constant linear relationship between the second-round output and the correction factor. There are more outputs in the first round because the correction factor lowers the minimum support allowing

for more item sets to be mined whereas in the second round the correction factor has no effect on the item sets mined since there is a constant minimum support for all item sets.

Graph of Output against Correction Factor