**Flow Chart for Malware analysis work**

**Naïve Bayes Classifier**

Test

Perform testing on GPU

Perform testing on CPU

Train Naïve Bayes classifier on CPU

Split training and testing data

Do feature selection for each group

Divide the dataset in the bucket of 5kb

Normalize dataset using min-max normalization

Malware and Benign CSV files

Testing Data

Training data

Trained model

Results for execution time and accuracy

**Neural Network**

Training accuracy calculation

10-Fold Cross-validation

Testing on CPU

Testing on GPU

Final score calculation for confusion matrix, serial and parallel execution time

Testing

Output Layer, I sigmoidal unit

Three Layer Neural Network

Input layer, 1809 input features

Hidden layer, 1809 PReLU units

Split Data into Training, testing and cross-validation data set (57-33-10)

Min-max Normalization

Remove unwanted attributes

Malware and Benign CSV files

Cross-validation data

Testing data

Trained Model