

# Report for Question No 1 and 2

Trained on:70000 challenges

Tested on:30000 challenges

libsvm package of Matlab used.

## Obtained Accuracies for Experimental Dataset(Q No 1)

Accuracy for APUF 1==>  
Accuracy = 94.7167% (28415/30000)  
Accuracy for APUF 2==>  
Accuracy = 94.72% (28416/30000)  
Accuracy for APUF 3==>  
Accuracy = 94.75% (28425/30000)  
Accuracy for APUF 4==>  
Accuracy = 94.5% (28350/30000)  
Accuracy for APUF 5==>  
Accuracy = 94.38% (28314/30000)  
Accuracy for APUF 6==>  
Accuracy = 94.6367% (28391/30000)  
Accuracy for APUF 7==>  
Accuracy = 94.5967% (28379/30000)  
Accuracy for APUF 8==>  
Accuracy = 94.55% (28365/30000)  
Accuracy for APUF 9==>  
Accuracy = 94.57% (28371/30000)  
Accuracy for APUF 10==>  
Accuracy = 94.6367% (28391/30000)

**Minimum:94.38%**

**Maximum:94.72%**

## Obtained Accuracies for Simulated Dataset(Q No 2)

Accuracy for APUF 1==>  
Accuracy = 94.3733% (28312/30000)  
Accuracy for APUF 2==>  
Accuracy = 94.4267% (28328/30000)  
Accuracy for APUF 3==>  
Accuracy = 94.8333% (28450/30000)  
Accuracy for APUF 4==>  
Accuracy = 94.26% (28278/30000)  
Accuracy for APUF 5==>  
Accuracy = 94.32% (28296/30000)  
Accuracy for APUF 6==>  
Accuracy = 94.8233% (28447/30000)  
Accuracy for APUF 7==>  
Accuracy = 94.4867% (28346/30000)

Accuracy for APUF 8===>

Accuracy = 94.2933% (28288/30000)

Accuracy for APUF 9===>

Accuracy = 94.4067% (28322/30000)

Accuracy for APUF 10===>

Accuracy = 94.1933% (28258/30000)

**Minimum:94.19%**

**Maximum:94.82%**