Same user

1 digit pin:

1. logistic regression:

* FAR = 0.0
* FRR = 1.0
* log-loss = 0.5651819807499111
* F-score = 0.0

2. support vector machine:

* FAR = 0.016666666666666666
* FRR = 0.20833333333333334
* log-loss = 0.2369367367691109
* F-score = 0.2664574143196471

3. random forest:

* FAR = 0.07777777777777778
* FRR = 0.13541666666666666
* log-loss = 3.378793342980393
* F-score = 0.4243241757345676

2 digit pin:

1. logistic regression:

* FAR = 0.0
* FRR = 1.0
* log-loss = 0.614527811644606
* F-score = 0.0

2. support vector machine:

* FAR = 0.019867549668874173
* FRR = 0.3148648648648649
* log-loss = 0.5054711780687011
* F-score = 0.3402843601895735

3. random forest:

* FAR = 0.19205298013245034
* FRR = 0.3581081081081081
* log-loss = 8.51956484407797
* F-score = 0.4312292358803987

Different users:

1 digit pin:

1. logistic regression:

* FAR = 0.0
* FRR=1.0
* log-loss=0.3344701361272292
* F-score=0.0

2. support vector machine:

* FAR = 0.0
* FRR=1.0
* log-loss=0.3059028396847222
* F-score=0.0

3. random forest:

* FAR =0.07547169811320754
* FRR=0.3571428571428571
* log-loss=5.756462732485114
* F-score=0.16666666666666666

2 digit pin:

1. logistic regression:

* FAR = 0.0036363636363636364
* FRR=1.0
* log-loss=0.2721861274428869
* F-score=0.0

2. support vector machine:

* FAR = 0.0
* FRR=1.0
* log-loss=0.2797057730999608
* F-score=0.0

3. random forest:

* FAR =0.09818181818181818
* FRR=0.84
* log-loss=5.52620422318571
* F-score=0.14285714285714285