

In [4]:

```
import numpy as np
import numpy.linalg as la
import matplotlib.pyplot as plt
%matplotlib inline
```

(2) Load the Labels and Data

Labels

In []:

Data

In []:

Plot some columns

In []:

(3) Construct A and b

create b

In []:

create A_{linear} and B_{linear} (for linear training and validation data)

In []:

(4) Solving the problem

solve the problem with QR

In []:

construct a prediction vector

In []:

plot false-positive and false-negatives

In []:

(5) Quadratic model

create b

In []:

create A_quad and B_quad

In []:

solve and predict

In []: