

# Exercise Classifier

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# Progress

- Collected data
- Extracted features
- Created classifier
- Researched what exercises do and don't work



## Discarded Data

```
[ [ 7  0  4  0  0  0 ]  
  [ 1  4  2  0  0  0 ]  
  [ 0  2 11  0  0  0 ]  
  [ 0  0  2  4  0  0 ]  
  [ 0  2  1  0  0  0 ]  
  [ 0  1  3  0  0  0 ] ]
```

We got each individual to collect data for various basic exercises

Certain exercises were not distinguishable from others (bicep curls)

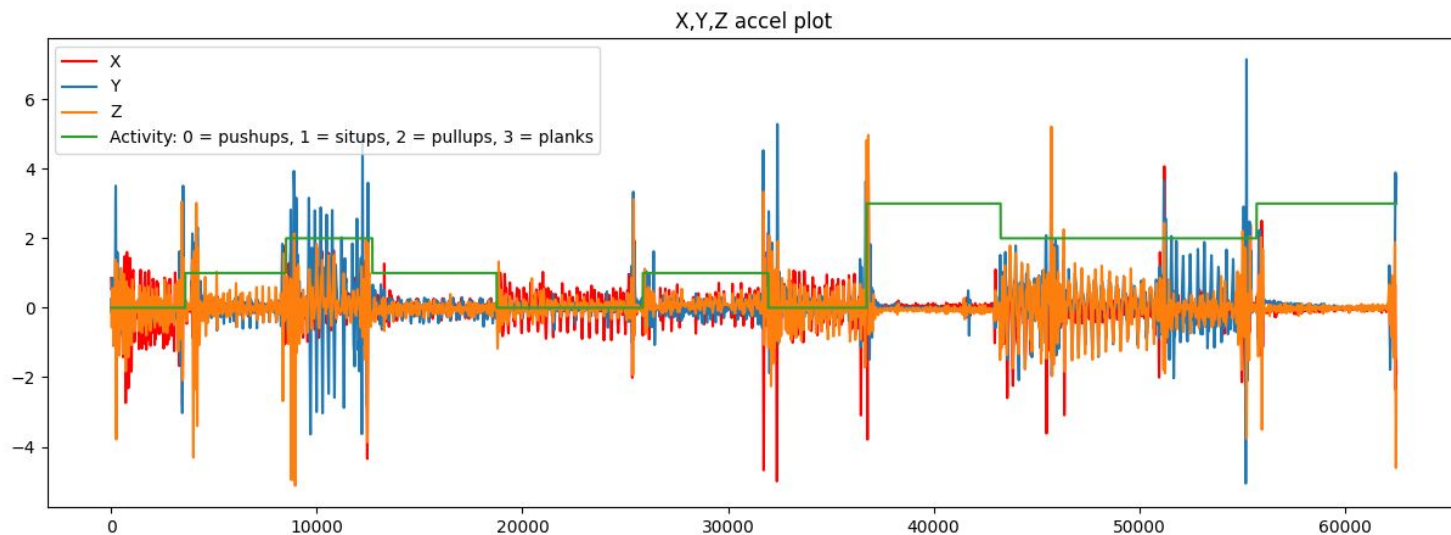
```
Accuracy:0.5521141649048624  
Precision:0.6916621810882816  
Recall:0.4936892492039551
```



# Data Processing

Low-pass filter with cutoff of 1.5 Hz

Chopping the first and last few seconds of each recording





# Features

