Handling Imbalanced Data Set.

```
df ["Virus Present"]. Value-Counts ()

Out: 1 200

O 200

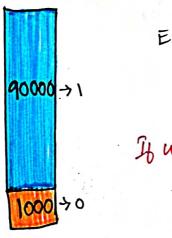
Balanced Data Set.
```

Ex: 50-50% (+,-=5%)

(or)

45-55%

1. Under Sampling major class



Ex: finance [cibil]

99 % [Pay]

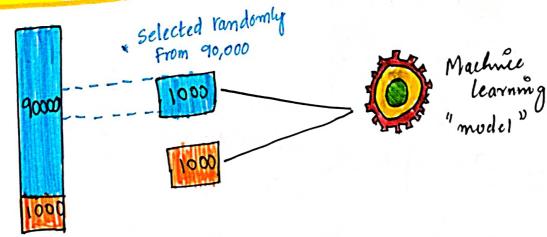
1 % [don't Pay]

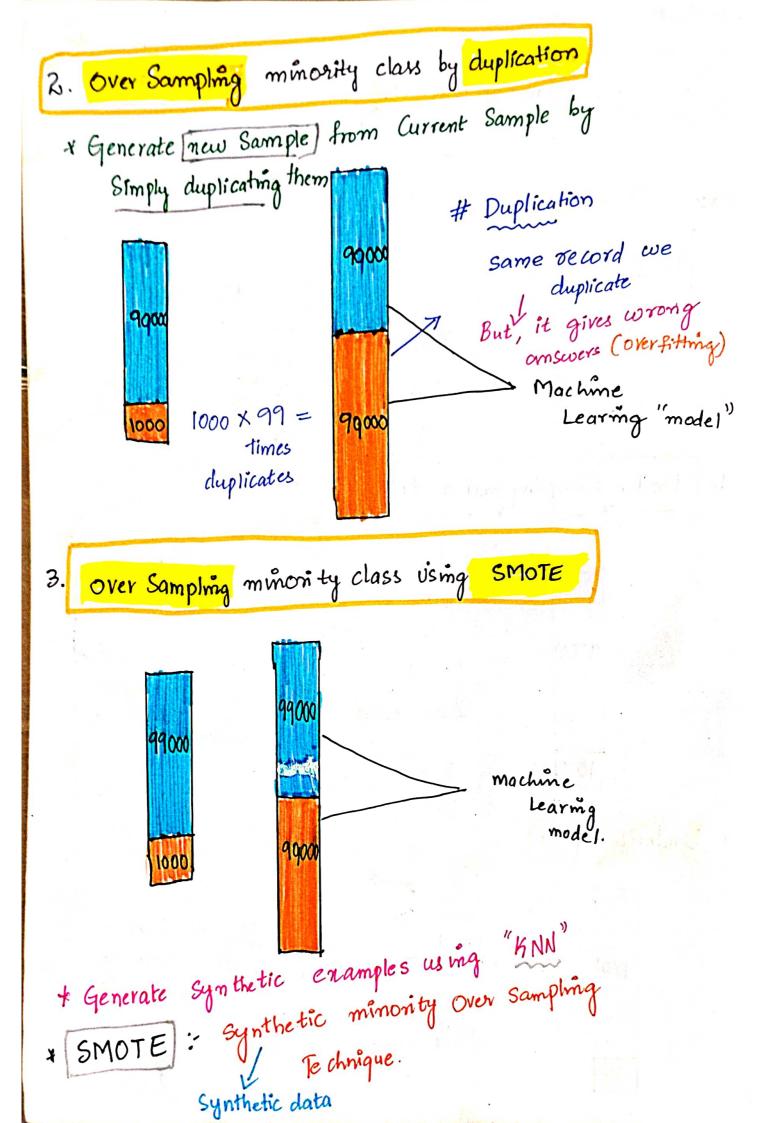
We apply classification Technique

* it gives always answer

as "1"

* Under Sampling





```
Ex: Symthetic data.
        age: 22
      mext record, we, create
        age: 22.1 (which is almost close to 22.
                         But not same data)
  EX:2
          22
                 If we want to create new data = 23.4
          21
                                   (Synthetic data)
        Avg: 23.4
       Ensemble Method
                              Machine learning [model]
Ex: 3100 records ] > 1000 " 157.
                  * 3000, divided into three parts.
     1000 records J
       * Then will make model, by Each part 1,2,3
          And we Take Majority vote.
                                                  divided by
                                                 "mimority class
        * Applying of cross validation.
```