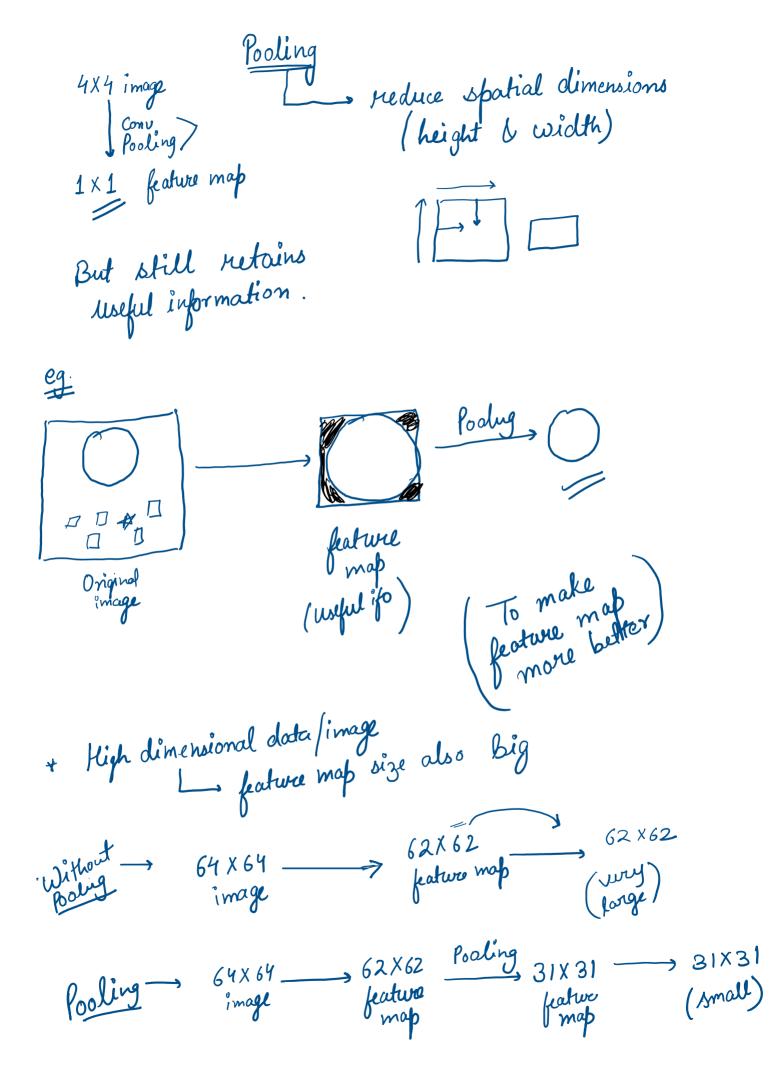
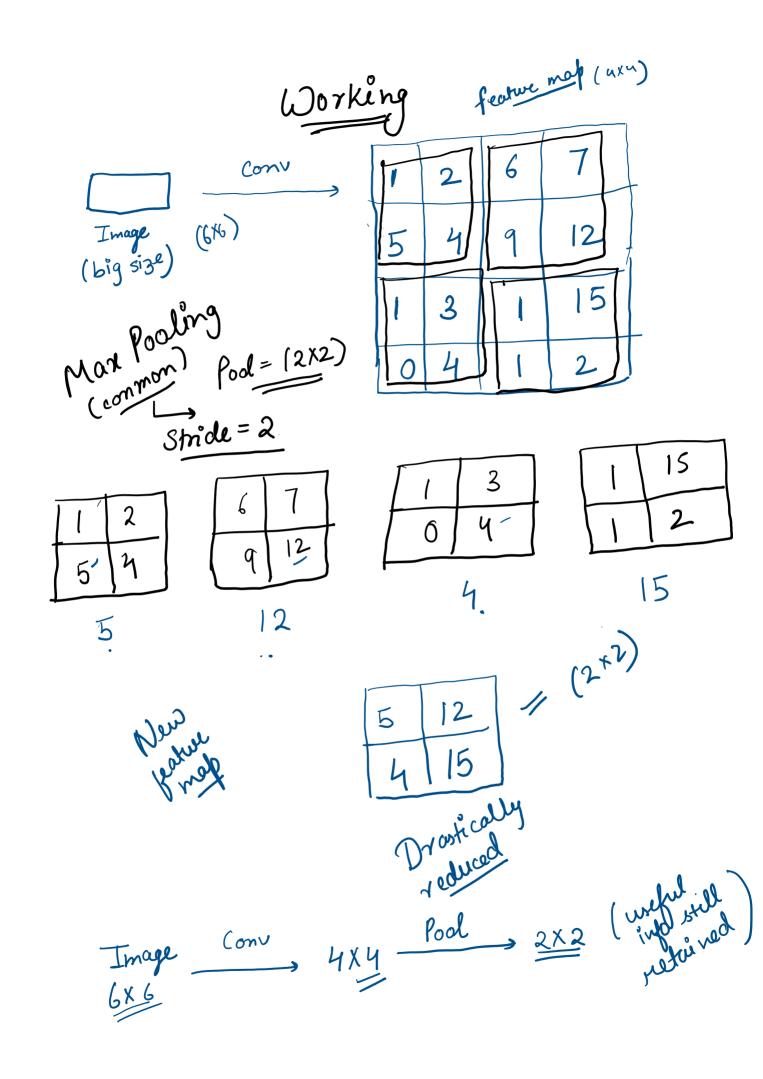
WHAT YOU WILL STUDY IN TODAY VIDEO?

- ► What is Pooling Layer?
- ► Importance of Pooling
- ► Types of Pooling and When to use which Pooling?



→ 1000×1000 Linension Image -(1) Without <u>Pooling hayer</u> (only Conv hayer) 1000 X 1000 image |X1 image = 499 Conv layer Too many params 500 layers Training slow High computational power 3 Vanishing Gradient Problem



Frank

```
1000 X 1000
  998×998
     | Pooling
  499X 499
  497 × 497

| Pool
248 × 248
    246×246
       J Pool
      123×123
      121 X 12 1
       60 x 60
       58 X 58
        29 X 29
         27×27
            1 Pool
```

2(14) I Pool 13×13 Conv 11×11 I Pool 5×5 Conv 3 × 3 Pool
1×L 1 fully connected 16 Conv + Pooling + Layer 17 Jayons

Types of Pooling Average Max pooling 6 + 3 + 2 + 1 = 1210 object as well as background imp. object - imp background - not imp Medical image MRI, Tumor face recognition.