

## Agenda:—

- Time → module ✓
- testing → ✓
- Decorators → surprise ✓
- methods → class ✓  
→ static ✓  
→ special ✓

time.time() → seconds → Jan 1, 1970

time.time() → 10 AM IST  
→ total\_1

time.time() → 10:02 AM IST  
→ total\_2

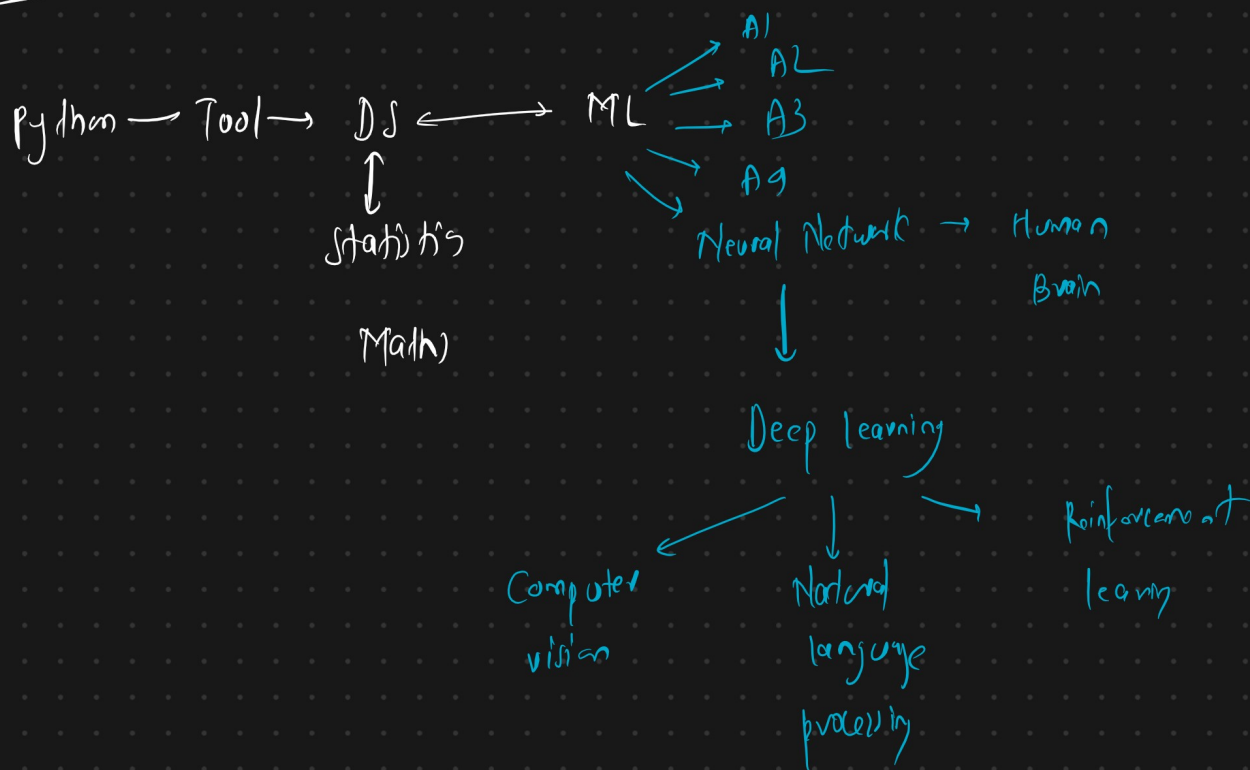
(1) How much time a function/method takes to execute.

(2) print("Error: \_\_\_\_\_") → Terminal

print("Database entry done for name: Minal") → Terminal  
file operations → txt

[time] → Error: " → txt  
→ 30 days

CV



Photos, chatgpt, Glibbi

Human → Eyes

→ Ear

→ Mouth

Specialization → DL →

← Computer vision → 15-20%  
↓  
Emp

Read Text, understand

NLP

## Decorators

→ function that takes another function as input & returns a new function.

New function will have added functionality without modifying the original function's code.

```
class ChatGPT:
```

```
    def __init__(self):
```

```
        _____
```

```
    def research(self):
```

```
        _____
```

```
    def qa(self):
```

```
        _____
```

obj

dental health

chatgpt → 2 second (QA)

→ 10\$

chatgpt → 50 min (Research)

→ 500 \$

```
        _____
```

Q. Analyze → which function is being used the most → Answer

How much money it is buying.

```

def research ()
    t1 = time.time ()
    _____
    _____
    _____

```

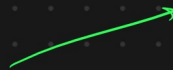


100's

```

t2 = time.time ()
t = t2 - t1 → seconds

```



return research, t → executing time

→ decorators

```

def research ()
    _____
    _____
    _____

```



wrap

def time\_it ()

t1 = time.time ()



t2 = time.time ()

t = t2 - t1

print (t)

wrap

funcs

```

research
_____
_____
_____

```

0x11b1

0x11b1

0x11b3  
research

```

time_it (func)
    wrapper ()
    _____
    _____
    _____
    return

```

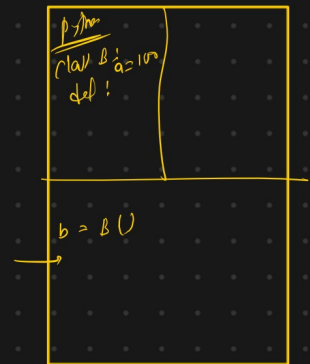


Class Memory!

total - mem = 12D →

def use\_memory(self)

self.ve =



whatsapp(↑ 10D Memory) → 10gb  
facebook(11D Memory) → memory

