"COMPUTER VISION"

ENG: AHMED MUBARAK
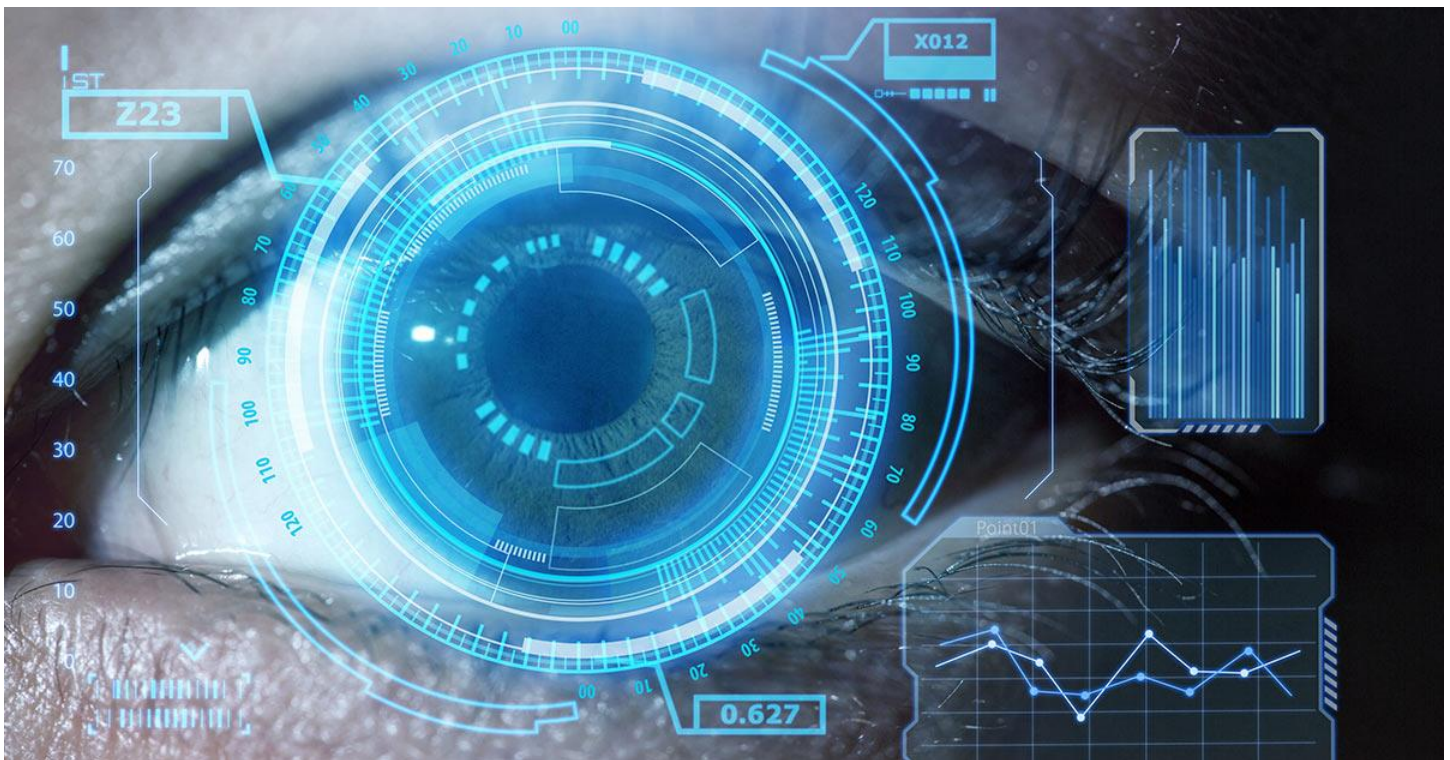
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SESSION NO."2"

- # PYTHON PROGRAMMING

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```python
list1 = [1,2,2,3,4,5,6,7,8,9]
print(list1)
print("-------------------------------------")
print(list1[0])
print("-------------------------------------")
print(list1[0:4])
print("-------------------------------------")
print(list1[:5])
print("-------------------------------------")
list1[4]=22
print(list1)
print("-------------------------------------")
del list1[0]
print(list1)
print("-------------------------------------")
del list1
# print(list1) # error because we delete it
print("-------------------------------------")
name = ["ahmed","mohamed","ibrahim","ali"]
age = [18,25,33,66]
print(name+age)
print(name*3)
print(len(name))
print(3 in name)
print("ahmed" in name)
print("-------------------------------------")
num = [11,12,13,14,15,16,17,18,19]
print(min(num))
print((max(num)))
num.append(20)
print(num)
num.append(11)
print(num.count(11))
x = [5,7,8,9]
num.extend(x)
print(num)
print(num.index(5))
num.insert(2,"ahmed")
print(num)
num.remove("ahmed")
print(num)
num.reverse()
print(num)
num.sort()
print(num)
```

9.Python Course – Tuple

```python
names=["ahmed","mohamed","ali"]
print(type(names))
print("---------------------------")
names = ("ahmed","mohamed","ali")
print(type(names))
# names[0]="ibrahim" #error because it's not support
num = (1,2,3)
print(names+num)
print(names*2)
print(min(num))
print(max(num))
# del num[0] #error because it's not support
del num
# print(num) #error because we delete it
num = (3,6,7,9,1,3,4)
num = list(num)
print(type(num))
```

10.Python Course – Dictionary

```python
search = {"name":"ahmed","age":23}
print(search)
print(search["name"])
search["name"]="mohamed"
print(search)
del search["age"]
print(search)
search.clear()
print(search)
del search
# print (search) #error because we deleted it
search = {"name":"ahmed","age":23}
print(len(search))
search = str(search)
print(type(search))
print("-------------------------------------------------------")
dict1={1,2,3,4,5,6,7,8,9}
dict2 = dict1.copy()
print(dict2)
```

11.Python Course - For Loops

```python
num = range(10)
num = list(num)
print(num)
print('-------------------------------')
num = range(2,10)
num = list(num)
print(num)
print('-------------------------------')
num = range(2,10,2)
num = list(num)
print(num)
print('-------------------------------')
nu = range (10)
nu = list(nu)
for i in nu :
    print (i)
```

12.Python Course - While Loop

```python
num = int(input("PLZ ENTER NUMBER : "))
while num != 0 :
    print("continue")
    num = int(input("PLZ ENTER NUMBER : "))
print("bye bye")
```

13. Loop Control with Break, Pass, and Continue

```python
word = "python"
for n in word :
    if n == 'h' :
        break
    else :
        print(n)
print("-------------------------------------")
word = "python"
for n in word :
    if n == 'h' :
        pass
    else :
        print(n)
print("--------------------------------------")
word = "python"
for n in word :
    if n == 'h' :
        continue
    else :
```

With my best wishes:

ENG : AHMED MUBARAK