Data Science – Machine Learning – Pickling and Unpickling

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✓ Based on requirement we can write total state of object to the file and we can read total object information from the file.

1. Pickling

- ✓ The process of writing state of object to the file is called as pickling.
- ✓ We can implement pickling and unpickling by using python pickle module
- ✓ We can do pickling by using dump(object, file) predefined function in pickle module
 - pickle.dump(object, file)

2. Unpickling

- ✓ The process of reading state of an object from the file is called unpickling.
- ✓ We can do unpickling by using load(file) predefined function in pickle module
 - obj = pickle.load(file)

```
Pickling and unpickling example
Program
Name
            demo1.py
            import pickle
            class Employee:
                   def __init__(self, eno, ename, esal):
                         self.eno = eno
                         self.ename = ename
                         self.esal = esal
                   def display(self):
                         print("Number is:", self.eno)
                         print("Name is:", self.ename)
                         print("Salary is:", self.esal)
            with open("emp.dat", "wb") as f:
                   e = Employee(100, "Daniel", 1000)
                   pickle.dump(e, f)
                   print("Pickling of Employee Object completed...\n")
            with open("emp.dat", "rb") as f:
                   obj = pickle.load(f)
                   print("Printing Employee Information after unpickling")
                   obj.display()
Output
            Pickling of Employee Object completed...
            Printing Employee Information after unpickling
            Number is: 100
            Name is: Daniel
            Salary is: 1000
```