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IT 2020 - CLASS 4

LAB ASSIGNMENT 14B (CODING AND BIG DATA COURSE)

PRACTICE



```
karat Age(yrs)
                   14 6 7
3 22 2
12 3 5
18 3 8
1 23 3
                8 12000

7 19300

17 19700

13 27500

9 22000

2 26100

6 32000

4 31500

15 35000

19 28200

5 26750

16 35500

10 18700

0 18000

Name: Sell Price($), dtype: int64
         [284] y_test
                 14 19400

3 40000

12 26000

18 12800

1 34000

11 19500

Name: Sell Price($), dtype: int64
         [285] from sklearn.linear_model import LinearRegression
                  clf = LinearRegression()
clf.fit(x_train, y_train)
karat Age(yrs)
                  array([16756.28878824, 38580.41624875, 24965.25905843, 12402.5416092, 34448.23533099, 16645.5056576])
          [288] y_test
                  14 19400

3 40000

12 26000

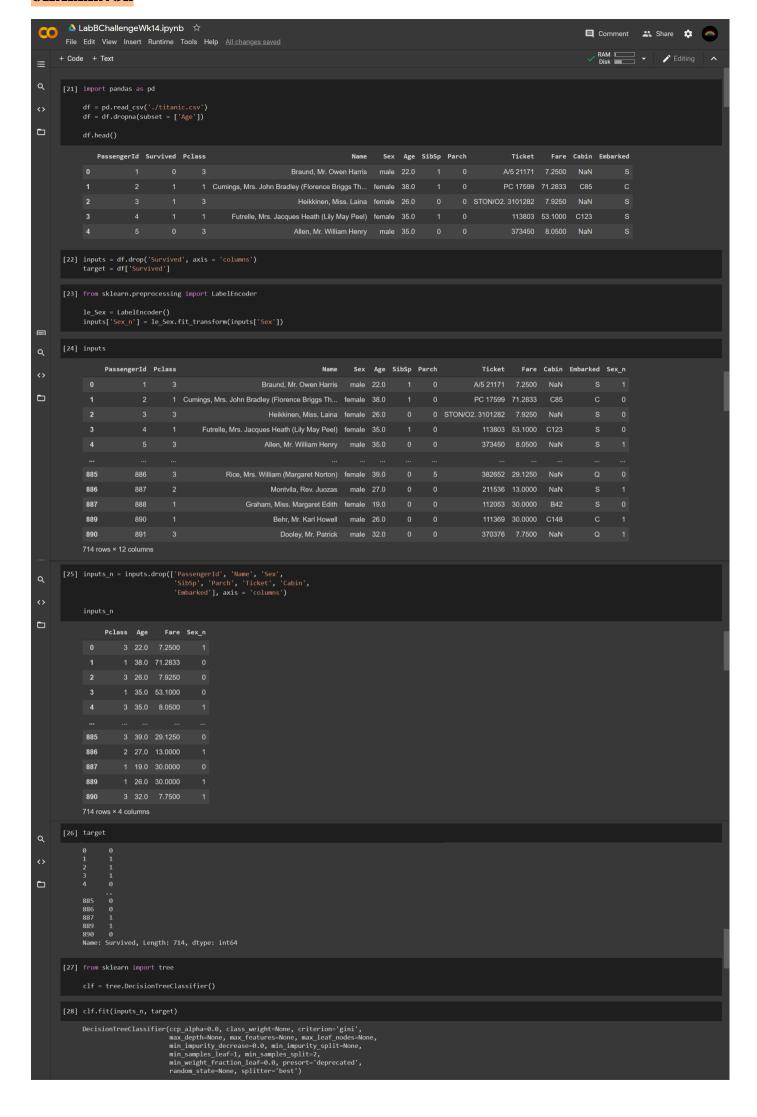
18 12800

1 34000

11 19500

Name: Sell Price($), dtype: int64
         karat Age(yrs)
```





```
[29] clf.score(inputs_n, target)
[30] print('are the passengers in the first-class and have a female gender can survive?') clf.predict([[1, 30, 70, 0]])
      are the passengers in the first-class and have a female gender can survive? array([1])
[31] print('is the passengers in the first-class and have a male gender can survive?') clf.predict([[1, 30, 70, 1]])
      is the passengers in the first-class and have a male gender can survive? \operatorname{array}([\theta])
[32] print('are the passengers in the second-class and have a female gender can survive?') clf.predict([[2, 30, 50, 0]])
      are the passengers in the second-class and have a female gender can survive? \operatorname{array}(\{1\})
[33] print('are the passengers in the second-class and have a male gender can survive?') clf.predict([[2, 30, 50, 1]])
       are the passengers in the second-class and have a male gender can survive? array([0])
[34] print('are the passengers in the third-class and have a female gender can survive?') clf.predict([[3, 30, 30, 0]])
      are the passengers in the third-class and have a female gender can survive? \mbox{array}([\theta])
[35] print('are the passengers in the third-class and have a male gender can survive?') clf.predict([[3, 30, 30, 1]])
       are the passengers in the third-class and have a male gender can survive? \mbox{array}([\theta])
[36] print('are the passengers in the first-class and have a female gender with the oldest age can survive?') clf.predict([[1, 70, 100, 0]])
      are the passengers in the first-class and have a female gender with the oldest age can survive? array([1])
[37] print('are the passengers in the first-class and have a male gender with the oldest age can survive?') clf.predict([[1, 70, 100, 1]])
      are the passengers in the first-class and have a male gender with the oldest age can survive? array([0])
[38] print('are the passengers in the first-class with the highest fare can survive?') clf.predict([[1, 30, 500, 1]])
      are the passengers in the first-class with the highest fare can survive? \mbox{array}(\mbox{\tt [1]})
[39] print('are the passengers in the third-class with the lowest fare can survive?') clf.predict([[3, 30, 10, 1]])
      are the passengers in the third-class with the lowest fare can survive? \operatorname{array}([1])
[40] print('are the passengers in the first-class with the youngest age can survive?')
    clf.predict([[1, 3, 100, 1]])
       are the passengers in the first-class with the youngest age can survive? \operatorname{array}([1])
```