UNIVERSIDAD POLITECNICA DE YUCATAN

UNIT 1

MACHINE LEARNING

TEACHER:

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by:

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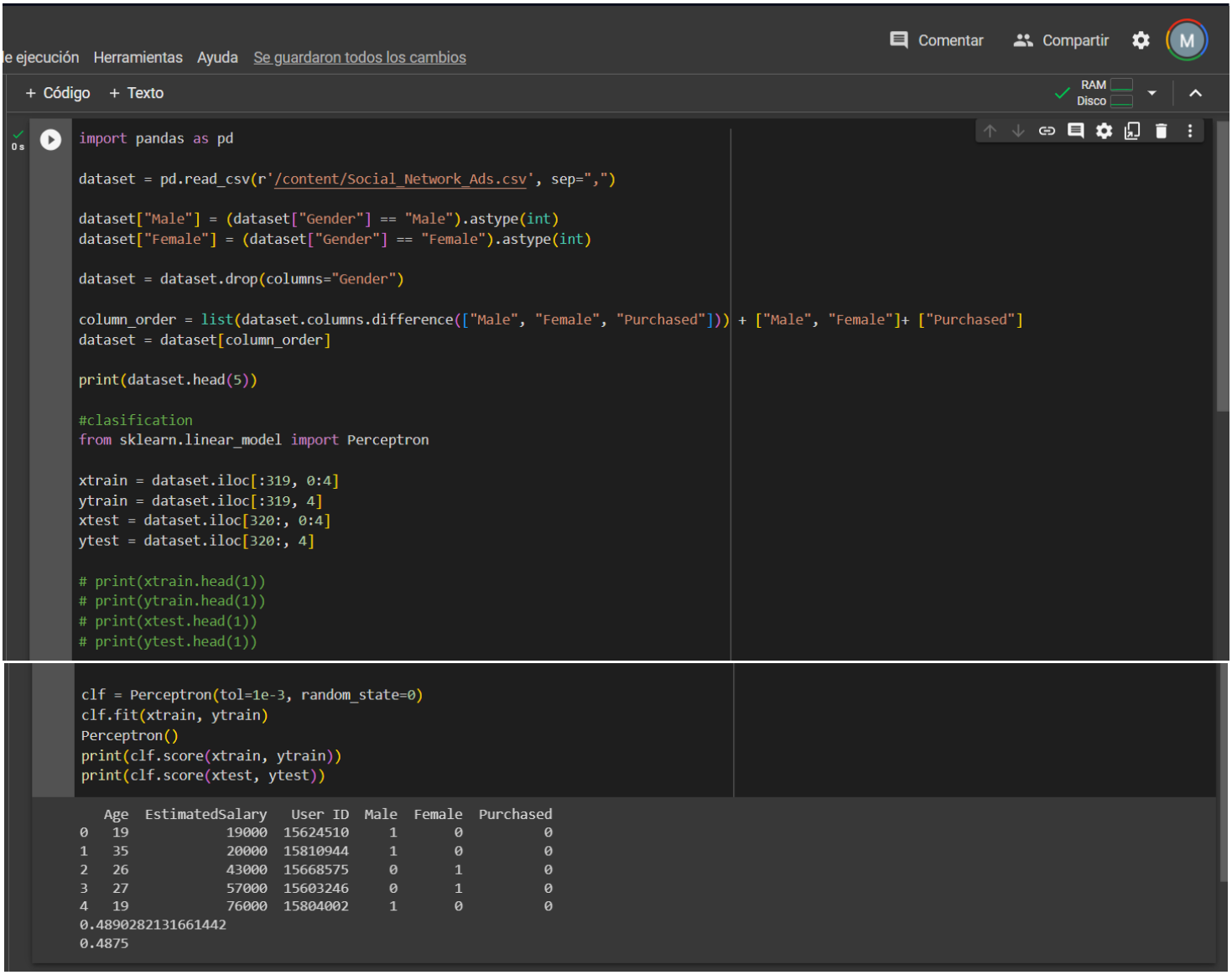
le ejecución Herramientas Ayuda Se guardaron todos los cambios
Comentar
Compartir
M
+ Código + Texto
RAM
Disco
0 s
import pandas as pd
dataset = pd.read_csv(r'/content/Social_Network_Ads.csv', sep=",")
dataset["Male"] = (dataset["Gender"] == "Male").astype(int)
dataset["Female"] = (dataset["Gender"] == "Female").astype(int)
dataset = dataset.drop(columns="Gender")
column_order = list(dataset.columns.difference(["Male", "Female", "Purchased"])) + ["Male", "Female"]+ ["Purchased"]
dataset = dataset[column_order]
print(dataset.head(5))
#clasification
from sklearn.linear_model import Perceptron
xtrain = dataset.iloc[:319, 0:4]
ytrain = dataset.iloc[:319, 4]
xtest = dataset.iloc[320:, 0:4]
ytest = dataset.iloc[320:, 4]
# print(xtrain.head(1))
# print(ytrain.head(1))
# print(xtest.head(1))
# print(ytest.head(1))
clf = Perceptron(tol=1e-3, random_state=0)
clf.fit(xtrain, ytrain)
Perceptron()
print(clf.score(xtrain, ytrain))
print(clf.score(xtest, ytest))
Age EstimatedSalary User ID Male Female Purchased
0 19 19000 15624510 1 0 0
1 35 20000 15810944 1 0 0
2 26 43000 15668575 0 1 0
3 27 57000 15603246 0 1 0
4 19 76000 15804002 1 0 0
0.4890282131661442
0.4875