190301012 – AHMET HAZAR HASPOLAT

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from sklearn.model_selection import train_test_split
import matplotlib.pyplot as plt
import random
from sklearn.linear_model import LogisticRegression

X = data[:, :5]
y = data[:, 5]

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2)

i = random.randint(0, len(X_train))

y_train[i] = 1 - y_train[i]

model = LogisticRegression()

model.fit(X_train, y_train)

accuracy = model.score(X_test, y_test)
print(f'Test accuracy: {accuracy:.2f}')

plt.scatter(X_train[:, 0], X_train[:, 1], c=y_train)
plt.show()
```