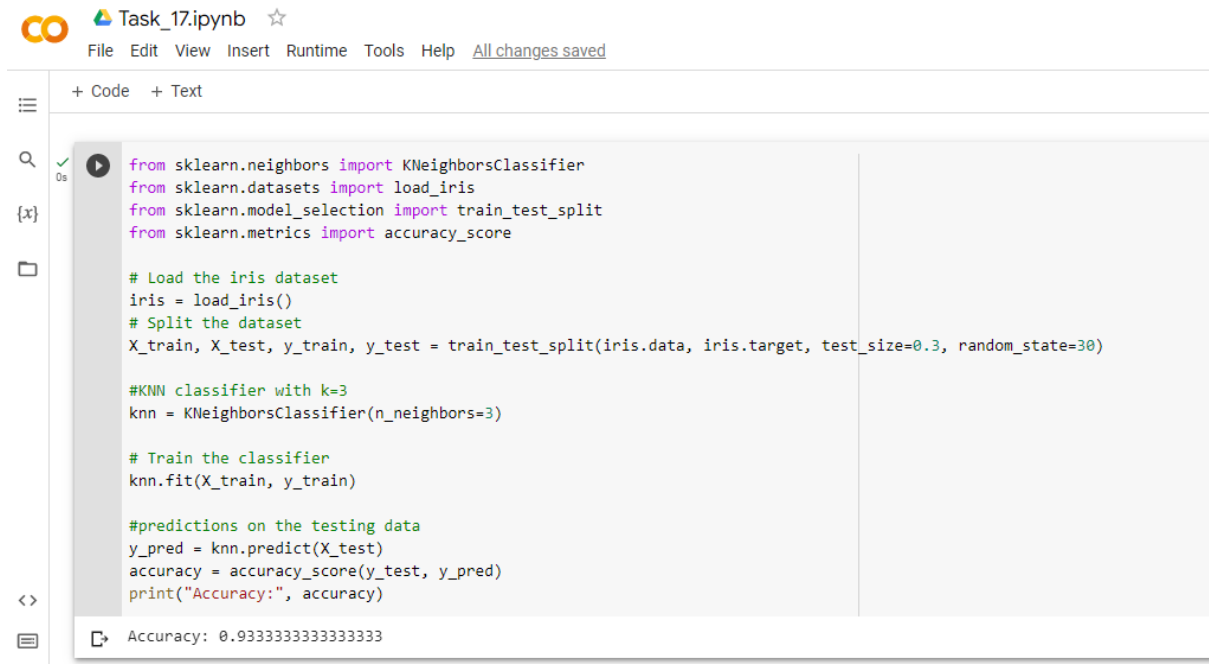


Sania Bibi

Task # 17



The image shows a Jupyter Notebook titled "Task_17.ipynb" with a star icon. The interface includes a menu bar with "File", "Edit", "View", "Insert", "Runtime", "Tools", and "Help", along with a status "All changes saved". Below the menu bar, there are tabs for "+ Code" and "+ Text". The main area displays a Python script for a KNN classifier. The script imports necessary libraries, loads the Iris dataset, splits it into training and testing sets, trains a KNN classifier with k=3, and prints the accuracy score. The output at the bottom shows an accuracy of 0.9333333333333333.

```
from sklearn.neighbors import KNeighborsClassifier
from sklearn.datasets import load_iris
from sklearn.model_selection import train_test_split
from sklearn.metrics import accuracy_score

# Load the iris dataset
iris = load_iris()
# Split the dataset
X_train, X_test, y_train, y_test = train_test_split(iris.data, iris.target, test_size=0.3, random_state=30)

#KNN classifier with k=3
knn = KNeighborsClassifier(n_neighbors=3)

# Train the classifier
knn.fit(X_train, y_train)

#predictions on the testing data
y_pred = knn.predict(X_test)
accuracy = accuracy_score(y_test, y_pred)
print("Accuracy:", accuracy)
```

Accuracy: 0.9333333333333333