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## Github:https://github.com/gangmansrinivas

**#project title**:Make the prediction for "iris.csv" using knn algorithem

```
from sklearn.datasets import load iris
from sklearn.model_selection import train_test_split
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import accuracy score
# Load the Iris dataset
iris = load iris()
X = iris.data
y = iris.target
# Split the dataset into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y,
test size=0.2, random state=42)
# Create a kNN classifier with k=3
k = 3
knn classifier = KNeighborsClassifier(n neighbors=k)
# Train the classifier on the training data
knn classifier.fit(X train, y train)
KNeighborsClassifier(n neighbors=3)
```

```
# Make predictions on the test data
y_pred = knn_classifier.predict(X_test)

# Calculate accuracy
accuracy = accuracy_score(y_test, y_pred)
print(f"Accuracy: {accuracy:.2f}")

Accuracy: 1.00
```

#Conclusion: In this model k=3 so it is sussesful