```
from google.colab import files
uploaded = files.upload()
import numpy as np
import pandas as pd
import os
import pandas as pd
from sklearn.tree import DecisionTreeClassifier
from sklearn.model_selection import train_test_split
from sklearn import metrics
diabetes = pd.read_csv('diabetes.csv')
diabetes.head()
#split dataset in features and target variable
feature_cols=['Pregnancies','Glucose','BloodPressure','SkinThickness','Insulin','
BMI', 'DiabetesPedigreeFunction', 'Age']
X = diabetes[feature cols]
# Features
y = diabetes.Outcome # Target variable
X.head()
v.head()
# Split dataset into training set and test set
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3,
random state=1) # 70% training and 30% test
# Create Decision Tree classifer object
clf = DecisionTreeClassifier()
# Train Decision Tree Classifer
clf = clf.fit(X_train,y_train)
#Predict the response for test dataset
y_pred = clf.predict(X_test)
```

print("Accuracy:", metrics.accuracy_score(y_test, y_pred))

```
from sklearn import tree
text_representation = tree.export_text(clf)
print(text_representation)
```

fig.savefig("decistion_tree.png")

```
import pickle

# Save the trained model as a pickle string.
saved_model = pickle.dumps(clf)

# Load the pickled model
clf_from_pickle = pickle.loads(saved_model)

# Use the loaded pickled model to make predictions
clf_from_pickle.predict(X_test)
```