import pandas as pd

from sklearn.model\_selection import train\_test\_split

from sklearn.preprocessing import StandardScaler

from sklearn.ensemble import RandomForestClassifier

from sklearn.metrics import accuracy\_score

# Load the Titanic dataset

url = "https://web.stanford.edu/class/archive/cs/cs109/cs109.1166/stuff/titanic.csv"

data = pd.read\_csv(url)

# Select relevant features and target variable

features = ['Pclass', 'Sex', 'Age', 'SibSp', 'Parch', 'Fare']

target = 'Survived'

data = data[features + [target]]

# Preprocessing

data['Sex'] = data['Sex'].map({'male': 0, 'female': 1})

data['Age'].fillna(data['Age'].median(), inplace=True)

data.dropna(inplace=True)

# Split the data into train and test sets

X = data.drop(target, axis=1)

y = data[target]

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.2, random\_state=42)

# Standardize the features

scaler = StandardScaler()

X\_train\_scaled = scaler.fit\_transform(X\_train)

X\_test\_scaled = scaler.transform(X\_test)

# Train a Random Forest classifier

clf = RandomForestClassifier(random\_state=42)

clf.fit(X\_train\_scaled, y\_train)

# Make predictions

y\_pred = clf.predict(X\_test\_scaled)

# Evaluate the model

accuracy = accuracy\_score(y\_test, y\_pred)

print(f"Accuracy: {accuracy:.2f}")