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Code

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```
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier
import pickle
from flask import Flask, request, render_template
import numpy as np

# Sample DataFrame (replace this with loading your dataset)
df = pd.read_csv('C:\\Studentbot\\Student_performance_data _ - Cop

# Dropping unnecessary columns based on correlation analysis
selected_features = [
    'StudyTimeWeekly', 'Absences', 'Tutoring', 'ParentalSupport',
     'GPA'
]

X = df[selected_features]
y = df['GradeClass']

# Split data
x_train, x_test, y_train, y_test = train_test_split(X, y, test_siz

# Train a RandomForestClassifier
RFC = RandomForestClassifier(random_state=42)
RFC.fit(x_train, y_train)

# Save the model as a pickle file
with open('RFC_std.pkl', 'wb') as file:
    pickle.dump(RFC, file)

# Initialize the Flask app
app = Flask(__name__)
```