MyFL.ai
ALL THINGS AI IN FLORIDA

The goal is to use AI to analyze government data sets & help decision-makers.

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Basic Python script for analyzing government data sets using AI.

Code	Explanation
`import pandas as pd`	Import the Pandas library to handle data
`import numpy as np`	Import the NumPy library to perform numerical
`from sklearn.model_selection import train_test_split`	Import the train_test_split function from scikit-learn to split the data into
`from sklearn.linear_model import LinearRegression`	Import the LinearRegression function from scikit-learn
`data = pd.read_csv('dap_data.csv')`	Load the DAP Public Dashboard data set into a
`visits = data['visits'].values`	Extract the 'visits' column from the DataFrame and convert it into a NumPy
`devices = data['devices'].values`	Extract the 'devices' column from the DataFrame and convert it

`browsers = data['browsers'].values`	Extract the 'browsers' column from the DataFrame and convert it
`os = data['os'].values`	Extract the 'os' column from the DataFrame and convert it into a NumPy
`demographics = data['demographics'].values`	Extract the 'demographics' column from the DataFrame and
`X_train, X_test, y_train, y_test = train_test_split(devices,`	Split the 'devices' and 'visits' arrays into training and testing sets, with a
`regressor = LinearRegression()`	Create an instance of the LinearRegression model.
`regressor.fit(X_train.reshape(-1, 1), y_train)`	Train the model using the training data.
`y_pred = regressor.predict(X_test.reshape(-1, 1))`	Use the trained model to predict the number of website visits for the
`accuracy = regressor.score(X_test.reshape(-1, 1), y_test)`	Evaluate the accuracy of the model using the testing data.
`print("Linear Regression`	Print a header for the
`print("Accuracy:", accuracy)`	Print the accuracy of the trained model.
`print("Predicted Visits:", y_pred)`	Print the predicted number of website visits

Note that this is just an example and the code can be modified and expanded to suit specific needs and requirements.

This script imports the necessary libraries, loads the DAP Public Dashboard data set, explores the data, splits it into training and testing sets, trains a linear regression model to predict website visits based on device type, and evaluates the model's accuracy.