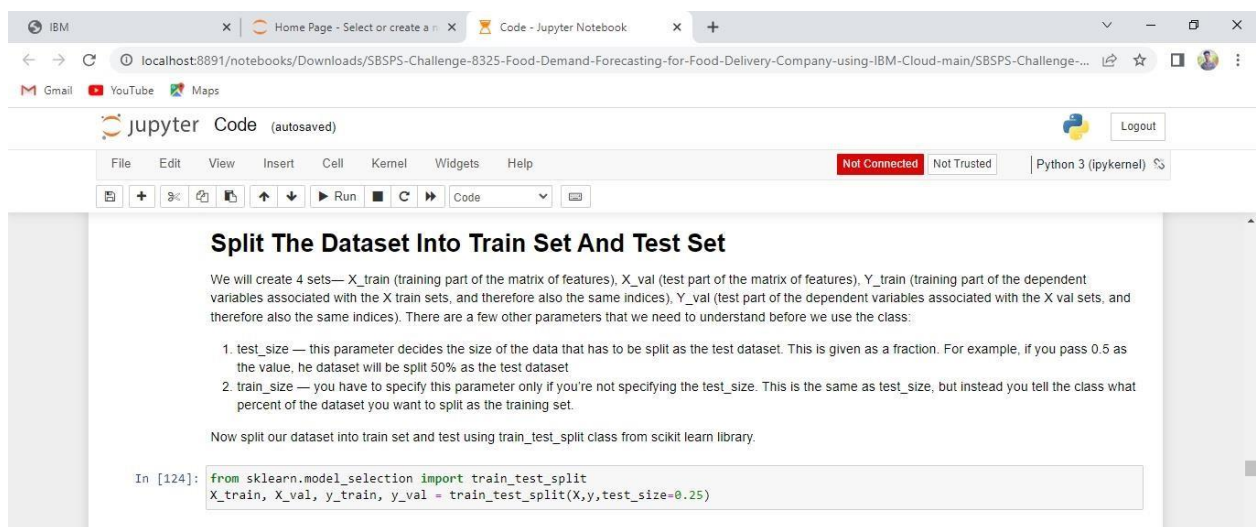


TEAM ID: PNT2022TMID44529

PROJECT NAME: DemandEst - AI powered Food DemandForecaster

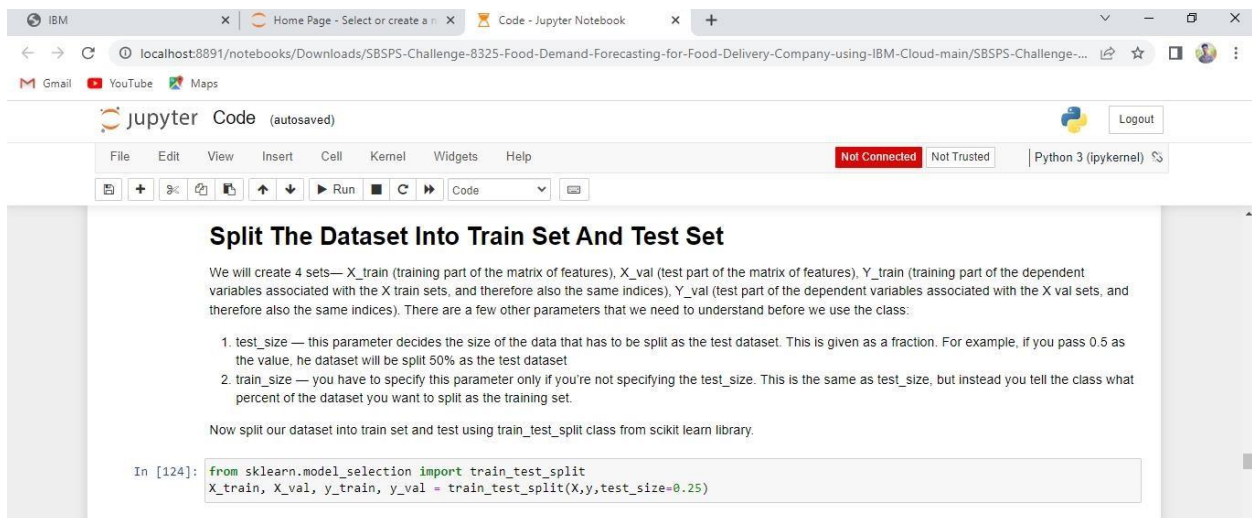
Team Leader



The screenshot shows a Jupyter Notebook interface in a web browser. The browser tabs include 'IBM', 'Home Page - Select or create a n...', and 'Code - Jupyter Notebook'. The address bar shows the URL: 'localhost:8891/notebooks/Downloads/SBSPS-Challenge-8325-Food-Demand-Forecasting-for-Food-Delivery-Company-using-IBM-Cloud-main/SBSPS-Challenge-...'. The Jupyter interface has a top bar with 'jupyter Code (autosaved)' and a 'Logout' button. Below the top bar is a menu bar with 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', 'Widgets', and 'Help'. A status bar indicates 'Not Connected', 'Not Trusted', and 'Python 3 (ipykernel)'. The main content area has a title 'Split The Dataset Into Train Set And Test Set'. The text below the title explains the goal: 'We will create 4 sets— X\_train (training part of the matrix of features), X\_val (test part of the matrix of features), Y\_train (training part of the dependent variables associated with the X train sets, and therefore also the same indices), Y\_val (test part of the dependent variables associated with the X val sets, and therefore also the same indices). There are a few other parameters that we need to understand before we use the class:'. A list of two parameters is provided: 1. test\_size — this parameter decides the size of the data that has to be split as the test dataset. This is given as a fraction. For example, if you pass 0.5 as the value, the dataset will be split 50% as the test dataset. 2. train\_size — you have to specify this parameter only if you're not specifying the test\_size. This is the same as test\_size, but instead you tell the class what percent of the dataset you want to split as the training set. Below the list, it says 'Now split our dataset into train set and test using train\_test\_split class from scikit learn library.' The code cell contains the following code: 

```
In [124]: from sklearn.model_selection import train_test_split
X_train, X_val, y_train, y_val = train_test_split(X,y,test_size=0.25)
```

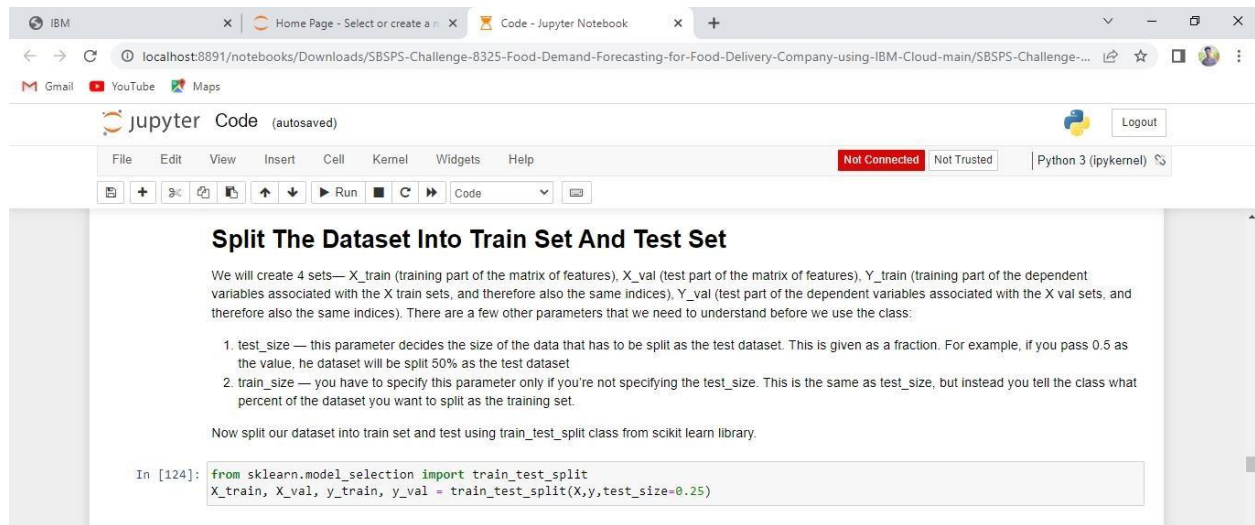
Team Member 1



The screenshot shows a Jupyter Notebook interface in a web browser. The browser tabs include 'IBM', 'Home Page - Select or create a n...', and 'Code - Jupyter Notebook'. The address bar shows the URL: 'localhost:8891/notebooks/Downloads/SBSPS-Challenge-8325-Food-Demand-Forecasting-for-Food-Delivery-Company-using-IBM-Cloud-main/SBSPS-Challenge-...'. The Jupyter interface has a top bar with 'jupyter Code (autosaved)' and a 'Logout' button. Below the top bar is a menu bar with 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', 'Widgets', and 'Help'. A status bar indicates 'Not Connected', 'Not Trusted', and 'Python 3 (ipykernel)'. The main content area has a title 'Split The Dataset Into Train Set And Test Set'. The text below the title explains the goal: 'We will create 4 sets— X\_train (training part of the matrix of features), X\_val (test part of the matrix of features), Y\_train (training part of the dependent variables associated with the X train sets, and therefore also the same indices), Y\_val (test part of the dependent variables associated with the X val sets, and therefore also the same indices). There are a few other parameters that we need to understand before we use the class:'. A list of two parameters is provided: 1. test\_size — this parameter decides the size of the data that has to be split as the test dataset. This is given as a fraction. For example, if you pass 0.5 as the value, the dataset will be split 50% as the test dataset. 2. train\_size — you have to specify this parameter only if you're not specifying the test\_size. This is the same as test\_size, but instead you tell the class what percent of the dataset you want to split as the training set. Below the list, it says 'Now split our dataset into train set and test using train\_test\_split class from scikit learn library.' The code cell contains the following code: 

```
In [124]: from sklearn.model_selection import train_test_split
X_train, X_val, y_train, y_val = train_test_split(X,y,test_size=0.25)
```

## Team Member 2`



The screenshot shows a Jupyter Notebook interface in a web browser. The browser's address bar displays the URL: `localhost:8891/notebooks/Downloads/SBSPS-Challenge-8325-Food-Demand-Forecasting-for-Food-Delivery-Company-using-IBM-Cloud-main/SBSPS-Challenge-...`. The Jupyter interface includes a top bar with the 'jupyter Code' logo and a 'Logout' button. Below this is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. A status bar indicates 'Not Connected', 'Not Trusted', and 'Python 3 (ipykernel)'. The main content area features a code cell with the following text and code:

**Split The Dataset Into Train Set And Test Set**

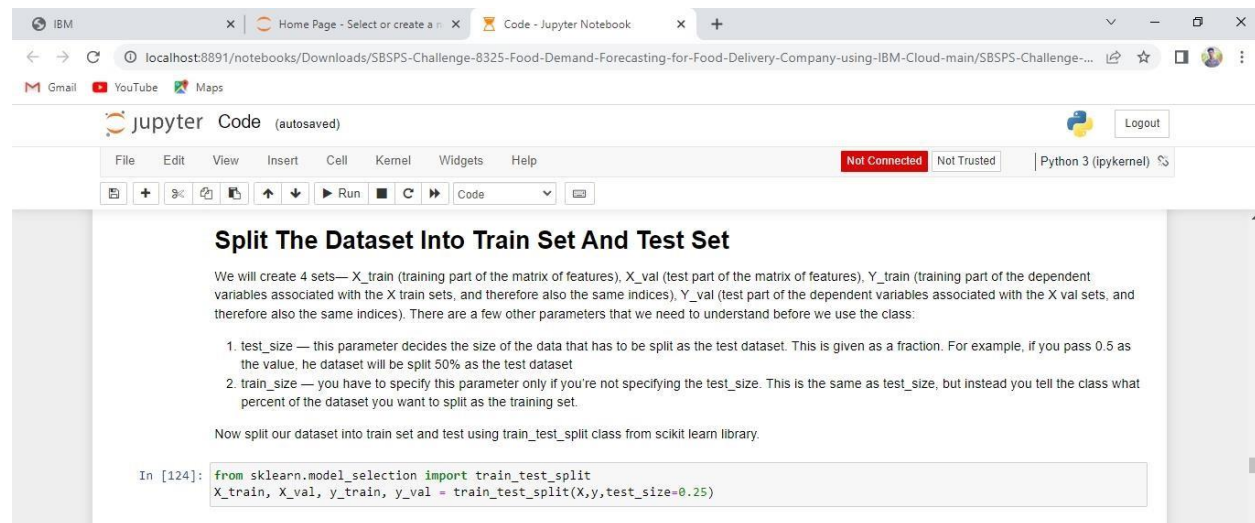
We will create 4 sets—X\_train (training part of the matrix of features), X\_val (test part of the matrix of features), Y\_train (training part of the dependent variables associated with the X train sets, and therefore also the same indices), Y\_val (test part of the dependent variables associated with the X val sets, and therefore also the same indices). There are a few other parameters that we need to understand before we use the class:

1. `test_size` — this parameter decides the size of the data that has to be split as the test dataset. This is given as a fraction. For example, if you pass 0.5 as the value, the dataset will be split 50% as the test dataset
2. `train_size` — you have to specify this parameter only if you're not specifying the `test_size`. This is the same as `test_size`, but instead you tell the class what percent of the dataset you want to split as the training set.

Now split our dataset into train set and test using `train_test_split` class from scikit learn library.

```
In [124]: from sklearn.model_selection import train_test_split
X_train, X_val, y_train, y_val = train_test_split(X,y,test_size=0.25)
```

## Team Member 3



The screenshot shows a Jupyter Notebook interface in a web browser. The browser's address bar displays the URL: `localhost:8891/notebooks/Downloads/SBSPS-Challenge-8325-Food-Demand-Forecasting-for-Food-Delivery-Company-using-IBM-Cloud-main/SBSPS-Challenge-...`. The Jupyter interface includes a top bar with the 'jupyter Code' logo and a 'Logout' button. Below this is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. A status bar indicates 'Not Connected', 'Not Trusted', and 'Python 3 (ipykernel)'. The main content area features a code cell with the following text and code:

**Split The Dataset Into Train Set And Test Set**

We will create 4 sets—X\_train (training part of the matrix of features), X\_val (test part of the matrix of features), Y\_train (training part of the dependent variables associated with the X train sets, and therefore also the same indices), Y\_val (test part of the dependent variables associated with the X val sets, and therefore also the same indices). There are a few other parameters that we need to understand before we use the class:

1. `test_size` — this parameter decides the size of the data that has to be split as the test dataset. This is given as a fraction. For example, if you pass 0.5 as the value, the dataset will be split 50% as the test dataset
2. `train_size` — you have to specify this parameter only if you're not specifying the `test_size`. This is the same as `test_size`, but instead you tell the class what percent of the dataset you want to split as the training set.

Now split our dataset into train set and test using `train_test_split` class from scikit learn library.

```
In [124]: from sklearn.model_selection import train_test_split
X_train, X_val, y_train, y_val = train_test_split(X,y,test_size=0.25)
```