


TEAM ID: PNT2022TMID52731

PROJECT NAME: DemandEst - AI powered Food Demand Forecaster

Team Leader

 jupyter Code (autosaved)

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Python 3 (ipykernel)

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Code

Dropping Columns

Let's drop columns "center_id" and "meal_id" as they are not required for the further process. Display the changes of trainfinal table using head().

```
In [110]: trainfinal = trainfinal.drop(['center_id', 'meal_id'], axis=1)
trainfinal.head()
```

Out[110]:

	id	week	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders	category	cuisine	city_code	region_code	center_type
0	1379560	1	136.83	152.29	0	0	177	Beverages	Thai	647	56	TYPE_C
1	1018704	2	135.83	152.29	0	0	323	Beverages	Thai	647	56	TYPE_C
2	1196273	3	132.92	133.92	0	0	96	Beverages	Thai	647	56	TYPE_C
3	1116527	4	135.86	134.86	0	0	163	Beverages	Thai	647	56	TYPE_C
4	1343872	5	146.50	147.50	0	0	215	Beverages	Thai	647	56	TYPE_C

Display the list of columns present in trainfinal table and store it in variable "cols"

```
In [111]: cols = trainfinal.columns.tolist()
print(cols)
```

```
['id', 'week', 'checkout_price', 'base_price', 'emailer_for_promotion', 'homepage_featured', 'num_orders', 'category', 'cuisine', 'city_code', 'region_code', 'center_type', 'op_area']
```

Rearrange the columns by slicing the columns of "cols" and print "cols"

jupyter Code (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Not Connected Not Trusted Python 3 (ipykernel)

trainfinal.head()

```
Out[113]:
```

	id	week	city_code	region_code	center_type	op_area	category	cuisine	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
0	1379560	1	647	56	TYPE_C	2.0	Beverages	Thai	136.83	152.29	0	0	
1	1018704	2	647	56	TYPE_C	2.0	Beverages	Thai	135.83	152.29	0	0	
2	1196273	3	647	56	TYPE_C	2.0	Beverages	Thai	132.92	133.92	0	0	
3	1116527	4	647	56	TYPE_C	2.0	Beverages	Thai	135.86	134.86	0	0	
4	1343872	5	647	56	TYPE_C	2.0	Beverages	Thai	146.50	147.50	0	0	

In [114]: trainfinal.dtypes

```
Out[114]:
```

id	int64
week	int64
city_code	int64
region_code	int64
center_type	object
op_area	float64
category	object
cuisine	object
checkout_price	float64
base_price	float64
emailer_for_promotion	int64
homepage_featured	int64
num_orders	int64
dtype:	object

Team Member 1

jupyter Code (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Not Connected Not Trusted Python 3 (ipykernel)

Dropping Columns

Let's drop columns "center_id" and "meal_id" as they are not required for the further process. Display the changes of trainfinal table using head().

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In [110]: trainfinal = trainfinal.drop(['center_id', 'meal_id'], axis=1)
trainfinal.head()
```

```
Out[110]:
```

	id	week	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders	category	cuisine	city_code	region_code	center_type
0	1379560	1	136.83	152.29	0	0	177	Beverages	Thai	647	56	TYPE_C
1	1018704	2	135.83	152.29	0	0	323	Beverages	Thai	647	56	TYPE_C
2	1196273	3	132.92	133.92	0	0	96	Beverages	Thai	647	56	TYPE_C
3	1116527	4	135.86	134.86	0	0	163	Beverages	Thai	647	56	TYPE_C
4	1343872	5	146.50	147.50	0	0	215	Beverages	Thai	647	56	TYPE_C

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print(cols)
```

```
['id', 'week', 'checkout_price', 'base_price', 'emailer_for_promotion', 'homepage_featured', 'num_orders', 'category', 'cuisine', 'city_code', 'region_code', 'center_type', 'op_area']
```

Rearrange the columns by slicing the columns of "cols" and print "cols"

jupyter Code (autosaved)

Python 3 (ipykernel)

Logout

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Code

```
trainfinal.head()
```

Out[113]:

	id	week	city_code	region_code	center_type	op_area	category	cuisine	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
0	1379560	1	647	56	TYPE_C	2.0	Beverages	Thai	136.83	152.29	0	0	
1	1018704	2	647	56	TYPE_C	2.0	Beverages	Thai	135.83	152.29	0	0	
2	1196273	3	647	56	TYPE_C	2.0	Beverages	Thai	132.92	133.92	0	0	
3	1116527	4	647	56	TYPE_C	2.0	Beverages	Thai	135.86	134.86	0	0	
4	1343872	5	647	56	TYPE_C	2.0	Beverages	Thai	146.50	147.50	0	0	

In [114]:

```
trainfinal.dtypes
```

Out[114]:

```
id                int64
week              int64
city_code         int64
region_code       int64
center_type       object
op_area           float64
category          object
cuisine           object
checkout_price     float64
base_price         float64
emailer_for_promotion  int64
homepage_featured  int64
num_orders         int64
dtype: object
```

Team Member 2

Jupyter Code (autosaved) Python 3 (ipykernel) Logout

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Dropping Columns

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In [110]: trainfinal = trainfinal.drop(['center_id', 'meal_id'], axis=1)
trainfinal.head()
```

```
Out[110]:
```

	id	week	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders	category	cuisine	city_code	region_code	center_type
0	1379560	1	136.83	152.29	0	0	177	Beverages	Thai	647	56	TYPE_C
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Display the list of columns present in trainfinal table and store it in variable "cols"

```
In [111]: cols = trainfinal.columns.tolist()
print(cols)
```

```
['id', 'week', 'checkout_price', 'base_price', 'emailer_for_promotion', 'homepage_featured', 'num_orders', 'category', 'cuisine', 'city_code', 'region_code', 'center_type', 'op_area']
```

Rearrange the columns by slicing the columns of "cols" and print "cols"

Jupyter Code (autosaved) Python 3 (ipykernel) Logout

File Edit View Insert Cell Kernel Widgets Help Not Connected Not Trusted

```
trainfinal.head()
```

```
Out[113]:
```

	id	week	city_code	region_code	center_type	op_area	category	cuisine	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
0	1379560	1	647	56	TYPE_C	2.0	Beverages	Thai	136.83	152.29	0	0	177
1	1018704	2	647	56	TYPE_C	2.0	Beverages	Thai	135.83	152.29	0	0	323
2	1196273	3	647	56	TYPE_C	2.0	Beverages	Thai	132.92	133.92	0	0	96
3	1116527	4	647	56	TYPE_C	2.0	Beverages	Thai	135.86	134.86	0	0	163
4	1343872	5	647	56	TYPE_C	2.0	Beverages	Thai	146.50	147.50	0	0	215

```
In [114]: trainfinal.dtypes
```

```
Out[114]:
```

id	int64
week	int64
city_code	int64
region_code	int64
center_type	object
op_area	float64
category	object
cuisine	object
checkout_price	float64
base_price	float64
emailer_for_promotion	int64
homepage_featured	int64
num_orders	int64
dtype:	object

Jupyter Code (autosave)

Logout

FileEditViewInsertCellKernelWidgetsHelp

Not Connected

Not Trusted

Python 3 (ipykernel)

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Code

Dropping Columns

Let's drop columns "center_id" and "meal_id" as they are not required for the further process. Display the changes of trainfinal table using head().

```
In [110]: trainfinal = trainfinal.drop(['center_id', 'meal_id'], axis=1)
          trainfinal.head()
```

```
Out[110]:
```

	id	week	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders	category	cuisine	city_code	region_code	center_type
0	1379560	1	136.83	152.29	0	0	177	Beverages	Thai	647	56	TYPE_C
1	1018704	2	135.83	152.29	0	0	323	Beverages	Thai	647	56	TYPE_C
2	1196273	3	132.92	133.92	0	0	96	Beverages	Thai	647	56	TYPE_C
3	1116527	4	135.86	134.86	0	0	163	Beverages	Thai	647	56	TYPE_C
4	1343872	5	146.50	147.50	0	0	215	Beverages	Thai	647	56	TYPE_C

Display the list of columns present in trainfinal table and store it in variable "cols"

```
In [111]: cols = trainfinal.columns.tolist()
          print(cols)
```

```
['id', 'week', 'checkout_price', 'base_price', 'emailer_for_promotion', 'homepage_featured', 'num_orders', 'category', 'cuisine', 'city_code', 'region_code', 'center_type', 'op_area']
```

Rearrange the columns by slicing the columns of "cols" and print "cols"

The screenshot displays the Jupyter Notebook environment. At the top, there's a navigation bar with tabs for File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. A status bar indicates "Not Connected" and "Not Trusted". The current kernel is "Python 3 (ipykernel)".

The main area shows a code cell with the following execution:

```
In [143]: trainfinal = trainfinal[trainfinal['num_orders'] > 0]
trainfinal.head()
```

The output (Out[113]) is a pandas DataFrame with the following columns: id, week, city_code, region_code, center_type, op_area, category, cuisine, checkout_price, base_price, emailer_for_promotion, homepage_featured, num_orders.

	id	week	city_code	region_code	center_type	op_area	category	cuisine	checkout_price	base_price	emailer_for_promotion	homepage_featured	num_orders
0	1379560	1	647	56	TYPE_C	2.0	Beverages	Thai	136.83	152.29	0	0	0
1	1018704	2	647	56	TYPE_C	2.0	Beverages	Thai	135.83	152.29	0	0	0
2	1196273	3	647	56	TYPE_C	2.0	Beverages	Thai	132.92	133.92	0	0	0
3	1116527	4	647	56	TYPE_C	2.0	Beverages	Thai	135.86	134.86	0	0	0
4	1343872	5	647	56	TYPE_C	2.0	Beverages	Thai	146.50	147.50	0	0	0

Below the DataFrame, another code cell is shown:

```
In [114]: trainfinal.dtypes
```

The output (Out[114]) shows the data types for each column:

```
id          int64
week        int64
city_code   int64
region_code int64
center_type object
op_area     float64
category    object
cuisine     object
checkout_price float64
base_price  float64
emailer_for_promotion int64
homepage_featured int64
num_orders  int64
dtype: object
```

