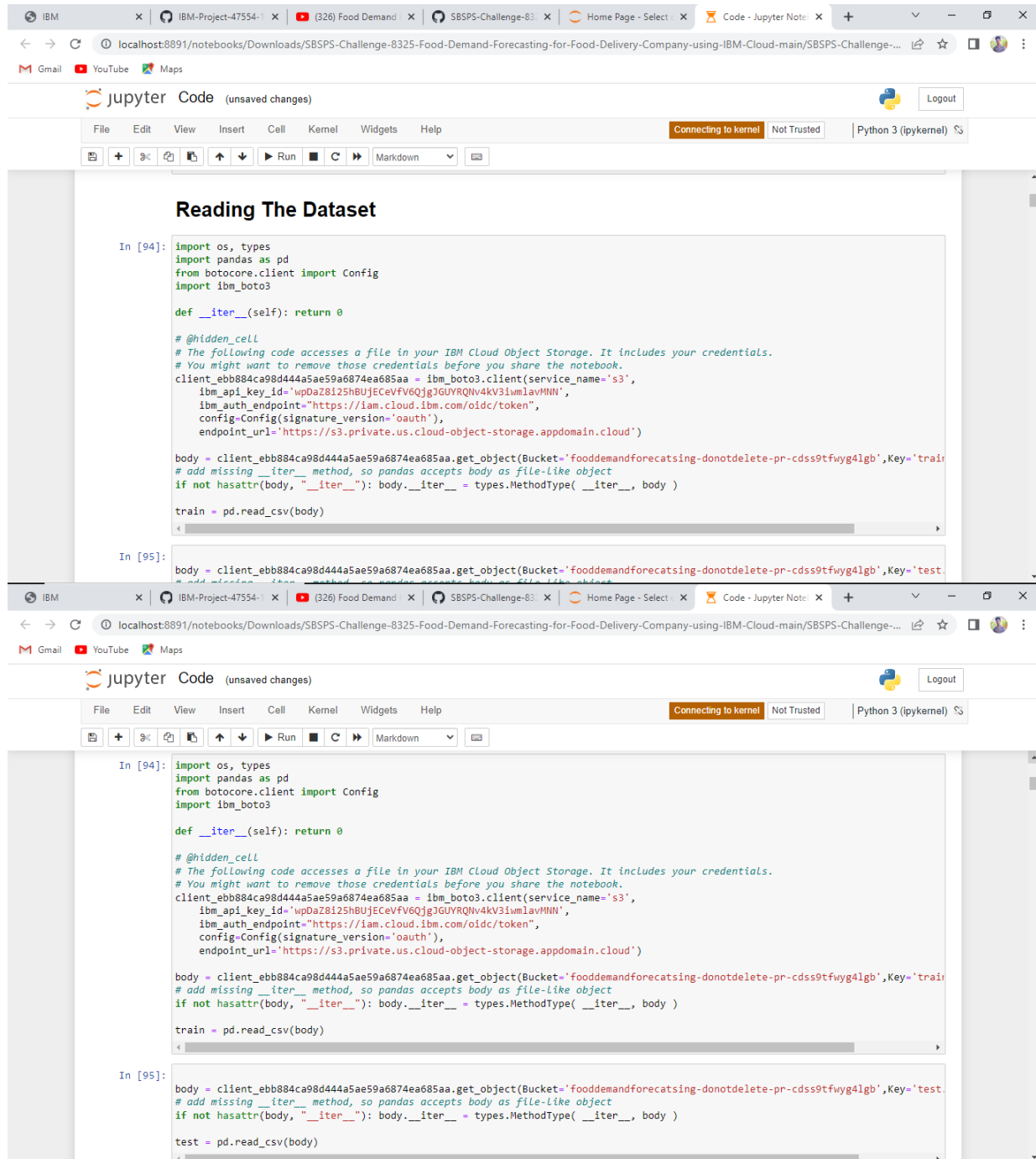


TEAM ID: PNT2022TMID25899

PROJECT NAME: DemandEst - AI powered Food Demand Forecaster



The screenshot displays a Jupyter Notebook interface with two visible code cells. The browser tabs at the top include 'IBM', 'IBM-Project-47554', '(326) Food Demand', 'SBSPS-Challenge-83', 'Home Page - Select', and 'Code - Jupyter Note'. The address bar shows the local host path: '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 'jupyter Code (unsaved changes)', a 'Logout' button, and a menu bar with 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', 'Widgets', and 'Help'. A status bar indicates 'Connecting to kernel', 'Not Trusted', and 'Python 3 (ipykernel)'. The first code cell, labeled 'In [94]:', is titled 'Reading The Dataset' and contains the following code:

```
import os, types
import pandas as pd
from boto3.client import Config
import boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
client_ebb884ca98d444a5ae59a6874ea685aa = boto3.client(service_name='s3',
    aws_access_key_id='wpDa28i25hBUjEceVfV6Qjg3GUYRQW4kV3iwm1avMNN',
    aws_secret_access_key='...',
    endpoint_url='https://iam.cloud.ibm.com/oidc/token',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')

body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType( __iter__, body )

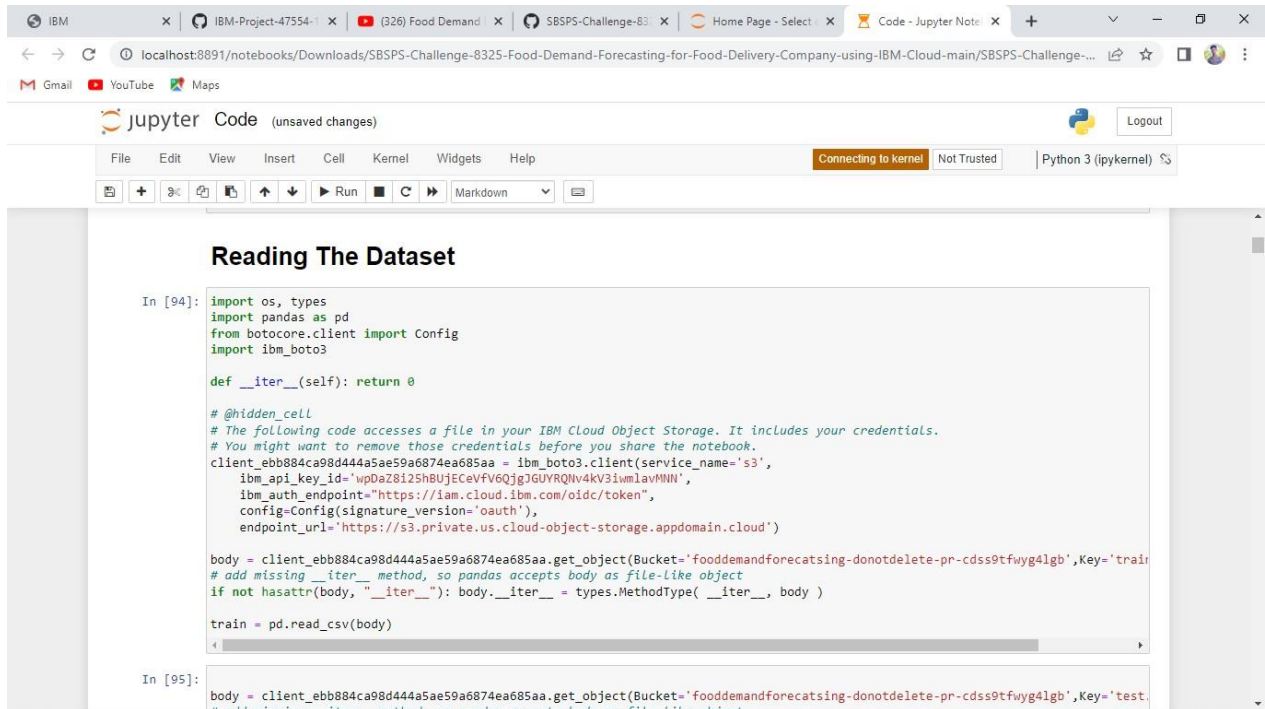
train = pd.read_csv(body)
```

The second code cell, labeled 'In [95]:', contains the following code:

```
body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecsing-donotdelete-pr-cdss9tfwyg4lgb',Key='test')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType( __iter__, body )

test = pd.read_csv(body)
```

Team Member 1



The screenshot shows a Jupyter Notebook interface with a browser window. The address bar indicates the notebook is running on localhost:8891. The notebook title is "jupyter Code (unsaved changes)". The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations, running, and saving. The code cell contains the following Python code:

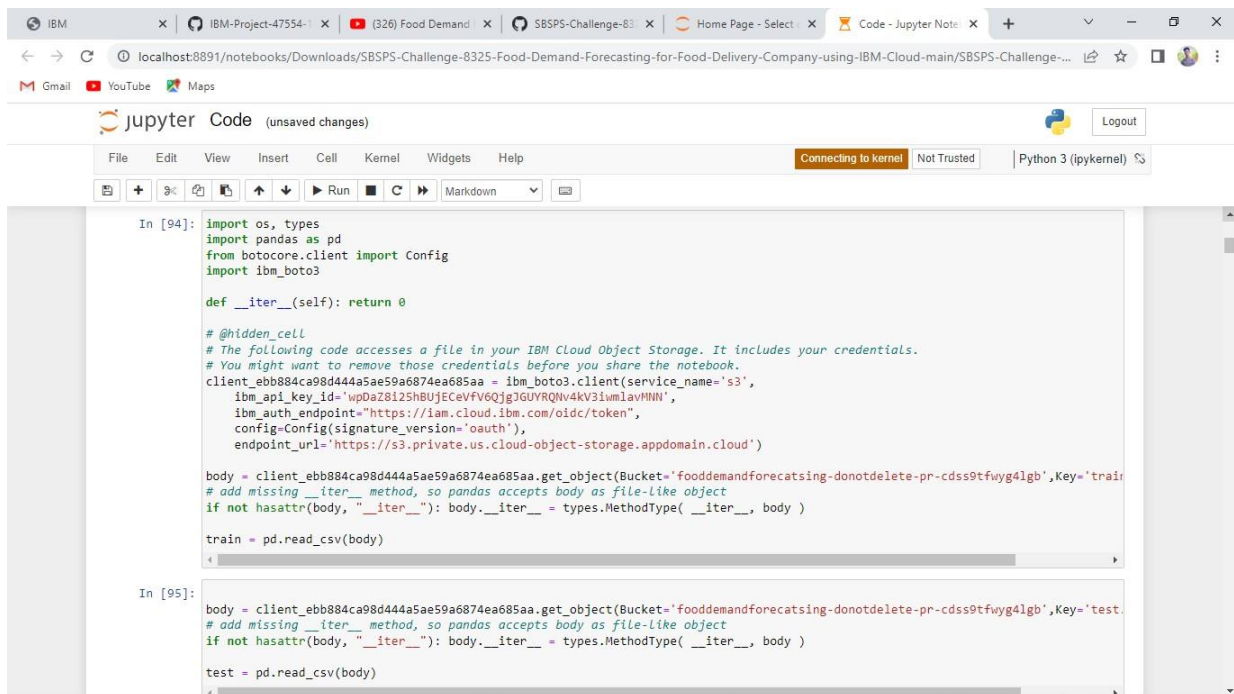
```
In [94]: import os, types
import pandas as pd
from boto3.client import Config
import ibm_boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
client_ebb884ca98d444a5ae59a6874ea685aa = ibm_boto3.client(service_name='s3',
    ibm_api_key_id='wpDaz8i25HBUjECeVfV6Qjg3GUYRQNV4KV3IvmlavMNN',
    ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')

body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

train = pd.read_csv(body)
```



The screenshot shows a Jupyter Notebook interface with a browser window. The address bar indicates the notebook is running on localhost:8891. The notebook title is "jupyter Code (unsaved changes)". The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations, running, and saving. The code cell contains the following Python code:

```
In [94]: import os, types
import pandas as pd
from boto3.client import Config
import ibm_boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
client_ebb884ca98d444a5ae59a6874ea685aa = ibm_boto3.client(service_name='s3',
    ibm_api_key_id='wpDaz8i25HBUjECeVfV6Qjg3GUYRQNV4KV3IvmlavMNN',
    ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')

body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

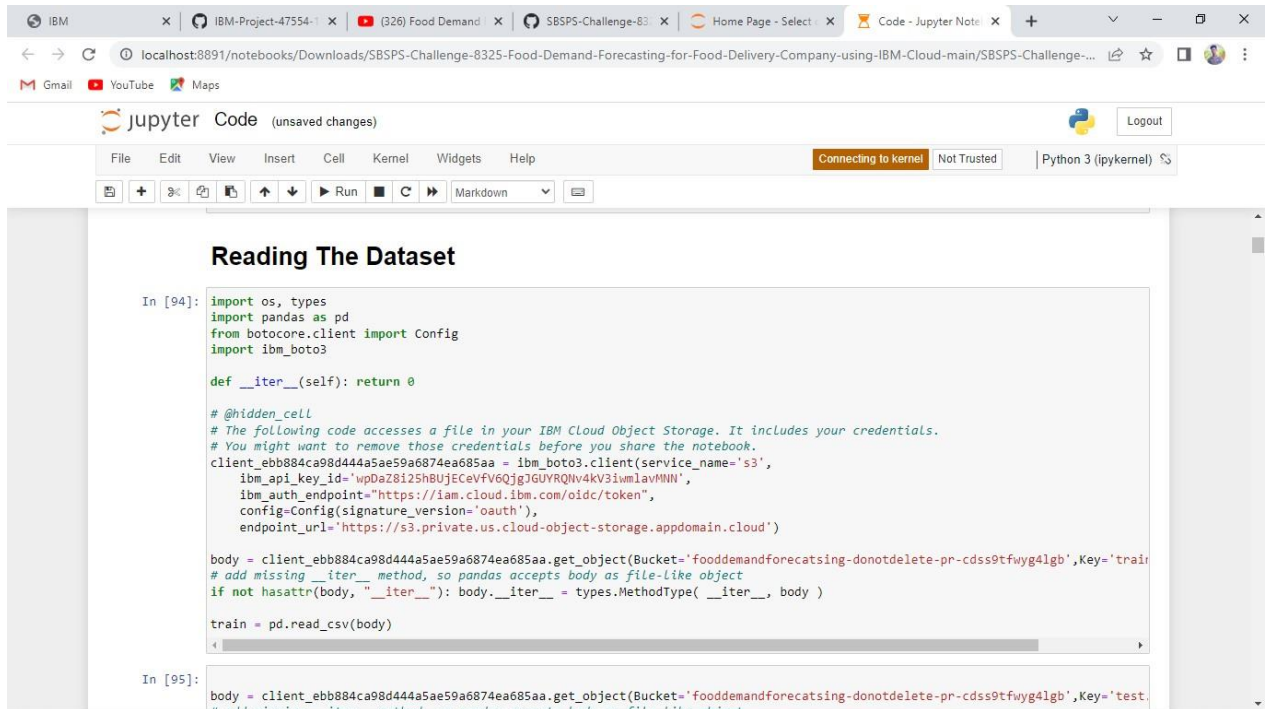
train = pd.read_csv(body)
```

In [95]:

```
body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='test')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

test = pd.read_csv(body)
```

Team Member 2



The screenshot shows a Jupyter Notebook interface with the title "Reading The Dataset". The code in the first cell (In [94]:) imports necessary libraries and configures the boto3 client to access a file in IBM Cloud Object Storage. The file is named "train" and is located in the bucket "fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb". The code then reads the CSV file into a pandas DataFrame named "train".

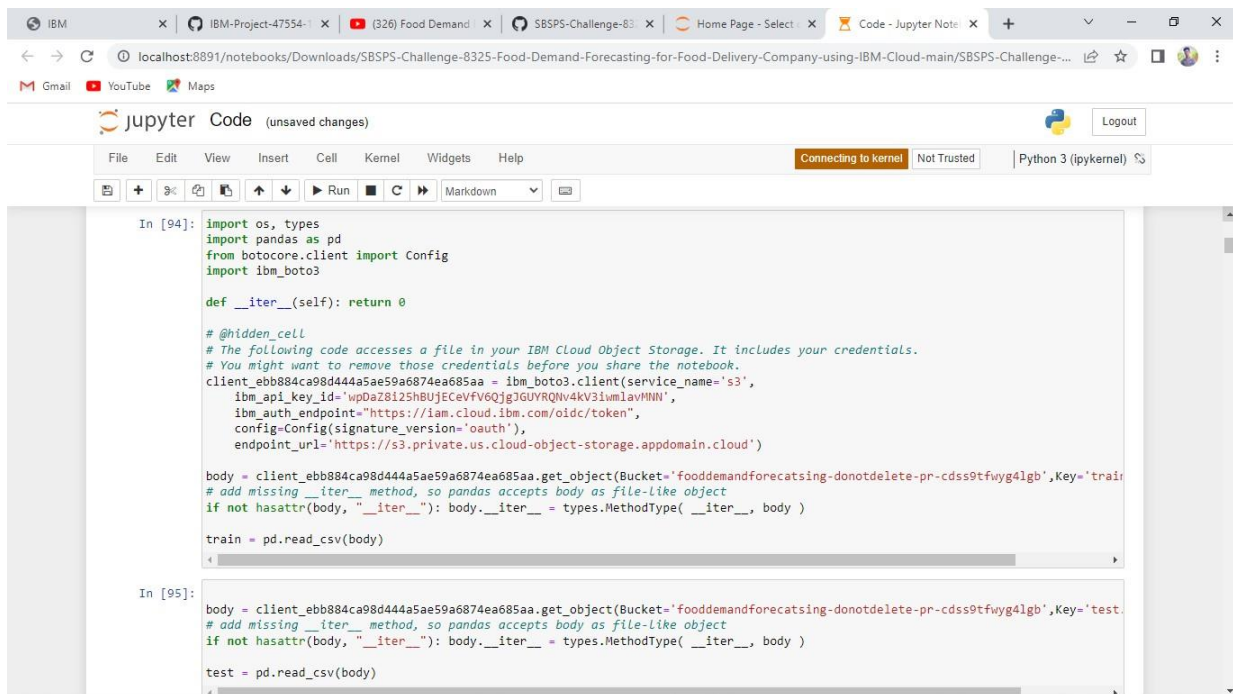
```
In [94]: import os, types
import pandas as pd
from boto3.client import Config
import ibm_boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
client_ebb884ca98d444a5ae59a6874ea685aa = ibm_boto3.client(service_name='s3',
    ibm_api_key_id='wpDaz8i25HBUjECeVfV6Qjg3GUYRQNV4KV3IvmlavMNN',
    ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')

body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

train = pd.read_csv(body)
```



The screenshot shows a Jupyter Notebook interface with the title "Reading The Dataset". The code in the first cell (In [94]:) imports necessary libraries and configures the boto3 client to access a file in IBM Cloud Object Storage. The file is named "train" and is located in the bucket "fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb". The code then reads the CSV file into a pandas DataFrame named "train".

```
In [94]: import os, types
import pandas as pd
from boto3.client import Config
import ibm_boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
client_ebb884ca98d444a5ae59a6874ea685aa = ibm_boto3.client(service_name='s3',
    ibm_api_key_id='wpDaz8i25HBUjECeVfV6Qjg3GUYRQNV4KV3IvmlavMNN',
    ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')

body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

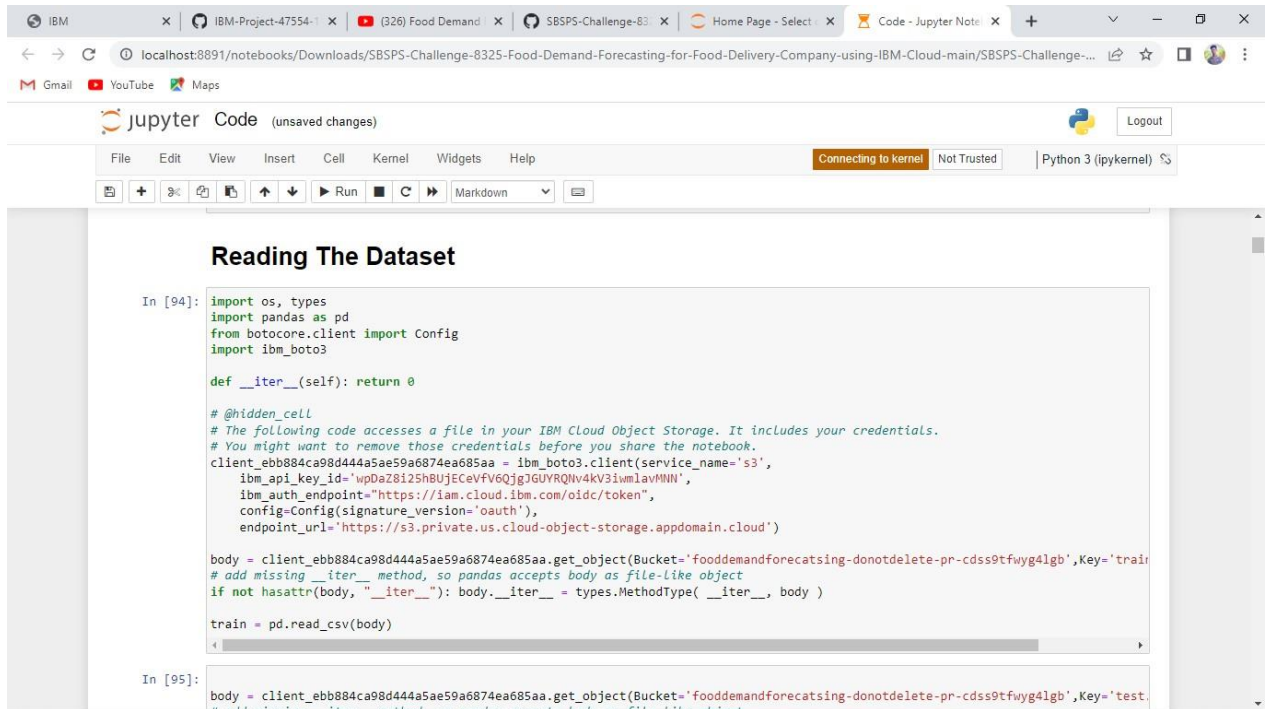
train = pd.read_csv(body)
```

The second cell (In [95]:) reads a file named "test" from the same bucket into a pandas DataFrame named "test".

```
In [95]: body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='test')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

test = pd.read_csv(body)
```

Team Member 3



The screenshot shows a Jupyter Notebook interface with a browser window at the top. The notebook has a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations, zooming, and running code. The main area contains a code cell with the following Python code:

```
In [94]: import os, types
import pandas as pd
from boto3.client import Config
import ibm_boto3

def __iter__(self): return 0

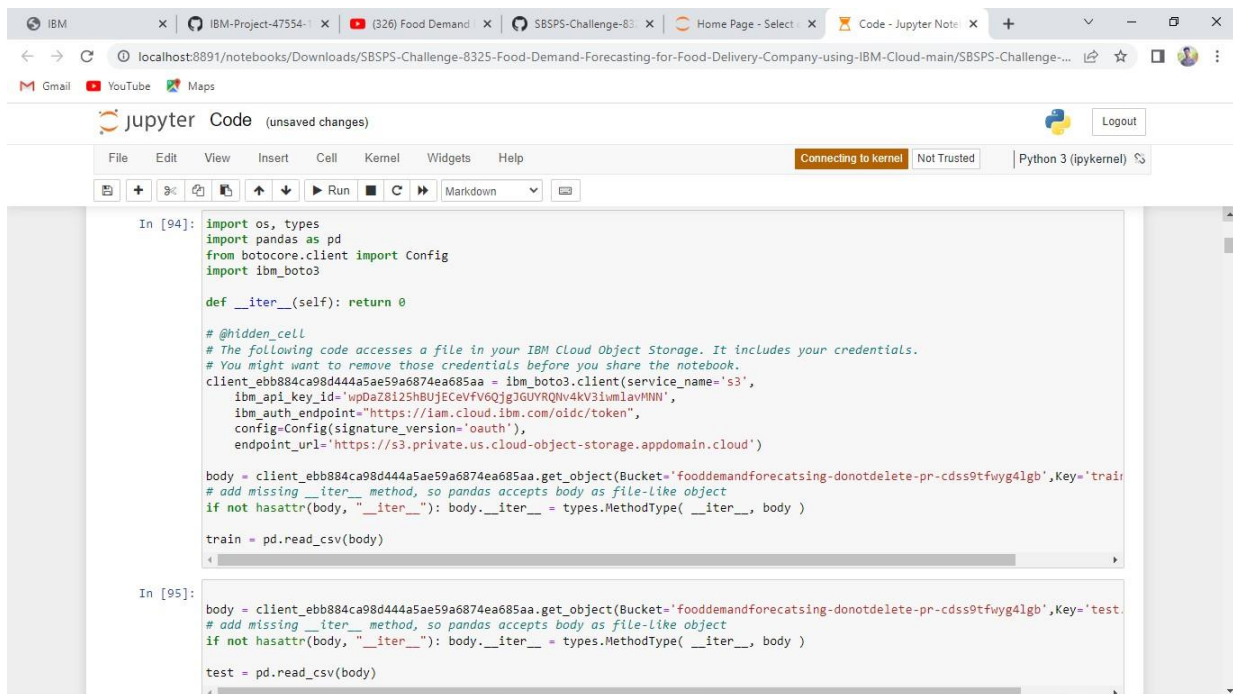
# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
client_ebb884ca98d444a5ae59a6874ea685aa = ibm_boto3.client(service_name='s3',
    ibm_api_key_id='wpDaz8i25HBUjECeVfV6Qjg3GUYRQNV4KV3IvmlavMNN',
    ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')

body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

train = pd.read_csv(body)
```

Below the first cell, the start of a second cell is visible:

```
In [95]: body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='test')
# add missing __iter__ method, so pandas accepts body as file-like object
```



The screenshot shows a Jupyter Notebook interface with a browser window at the top. The notebook has a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations, zooming, and running code. The main area contains two code cells:

```
In [94]: import os, types
import pandas as pd
from boto3.client import Config
import ibm_boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
client_ebb884ca98d444a5ae59a6874ea685aa = ibm_boto3.client(service_name='s3',
    ibm_api_key_id='wpDaz8i25HBUjECeVfV6Qjg3GUYRQNV4KV3IvmlavMNN',
    ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')

body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

train = pd.read_csv(body)
```

```
In [95]: body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='test')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

test = pd.read_csv(body)
```