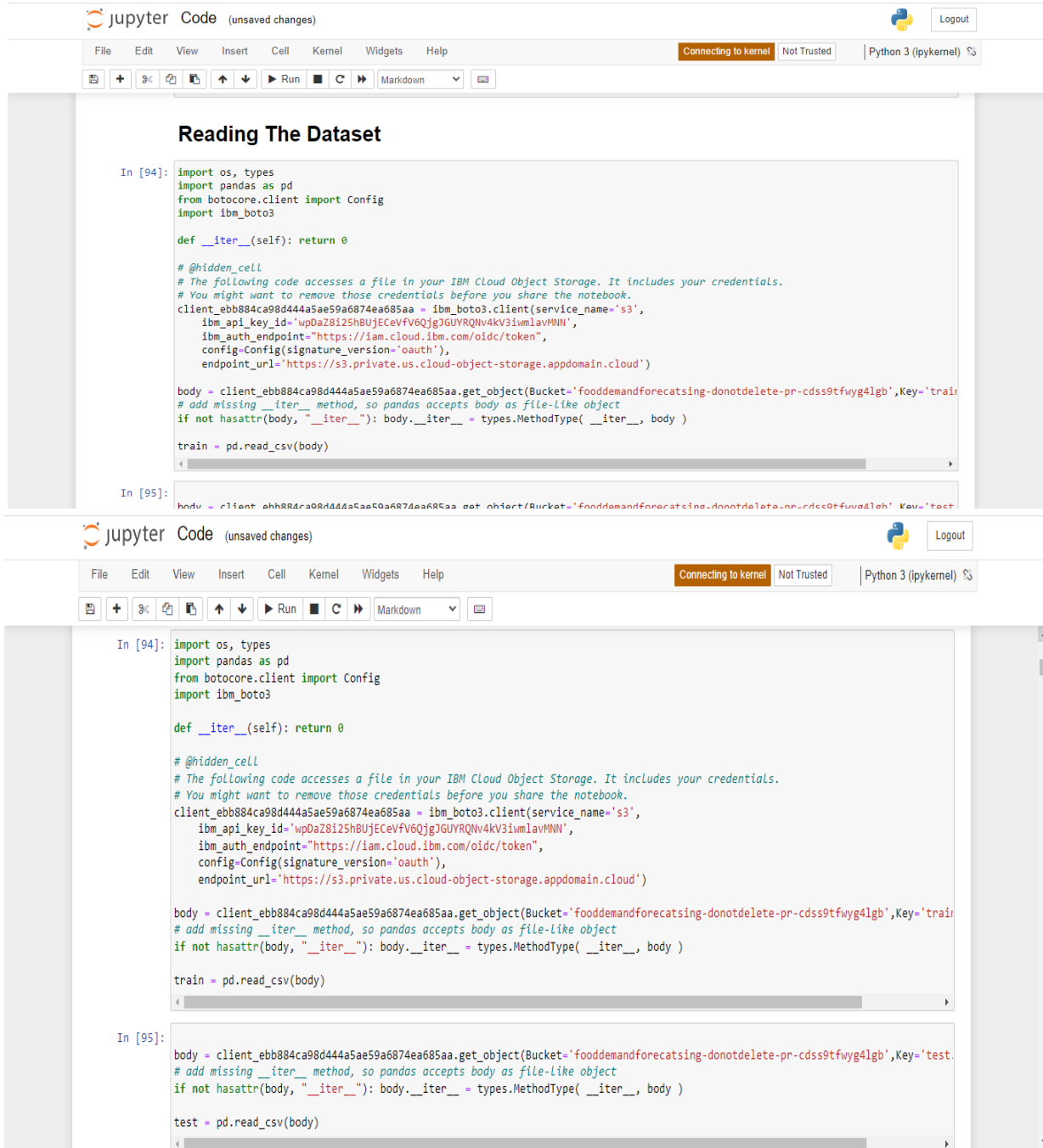


TEAM ID: PNT2022TMID51052

PROJECT NAME: DemandEst - AI powered Food Demand Forecaster



The image displays two screenshots of a Jupyter Notebook interface, showing code for reading a dataset from IBM Cloud Object Storage.

Top Screenshot: The notebook is titled "Reading The Dataset". The code in cell [94] imports necessary libraries and defines a function to read a CSV file from IBM Cloud Object Storage. The code is as follows:

```
In [94]: 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 = boto3.client(service_name='s3',
                      aws_access_key_id='wpDaZ8125hBUjECeVfV6Qjg3GUYRQIv4kV3iwmIavMNN',
                      aws_secret_access_key='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.get_object(Bucket='fooddemandforecastsing-donotdelete-pr-cdss9tfwyg4lgb', Key='train.csv')
# 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)
```

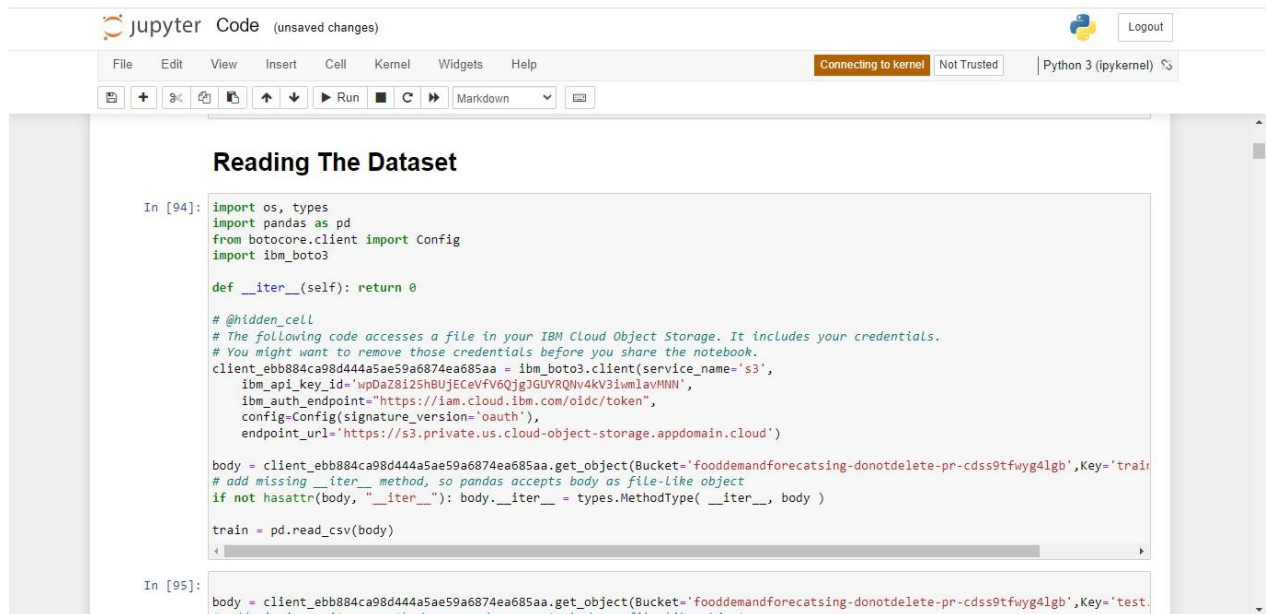
The code in cell [95] is partially visible and appears to be for reading a test dataset:

```
In [95]: body = client.get_object(Bucket='fooddemandforecastsing-donotdelete-pr-cdss9tfwyg4lgb', Key='test.csv')
# 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)
```

Bottom Screenshot: This screenshot shows the same code as the top screenshot, but with the test dataset reading code in cell [95] fully visible.

Team Member 1



The image shows a Jupyter Notebook interface with the title "jupyter Code (unsaved changes)". The top bar includes a "Connecting to kernel" status, a "Not Trusted" warning, and the kernel name "Python 3 (ipykernel)". The notebook has a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". Below the menu is a toolbar with icons for saving, undo, redo, and running code. The main area contains two code cells. The first cell, labeled "In [94]:", imports necessary libraries and defines a function to read a CSV file from IBM Cloud Object Storage. The second cell, labeled "In [95]:", uses the function to read a specific CSV file. The code is as follows:

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

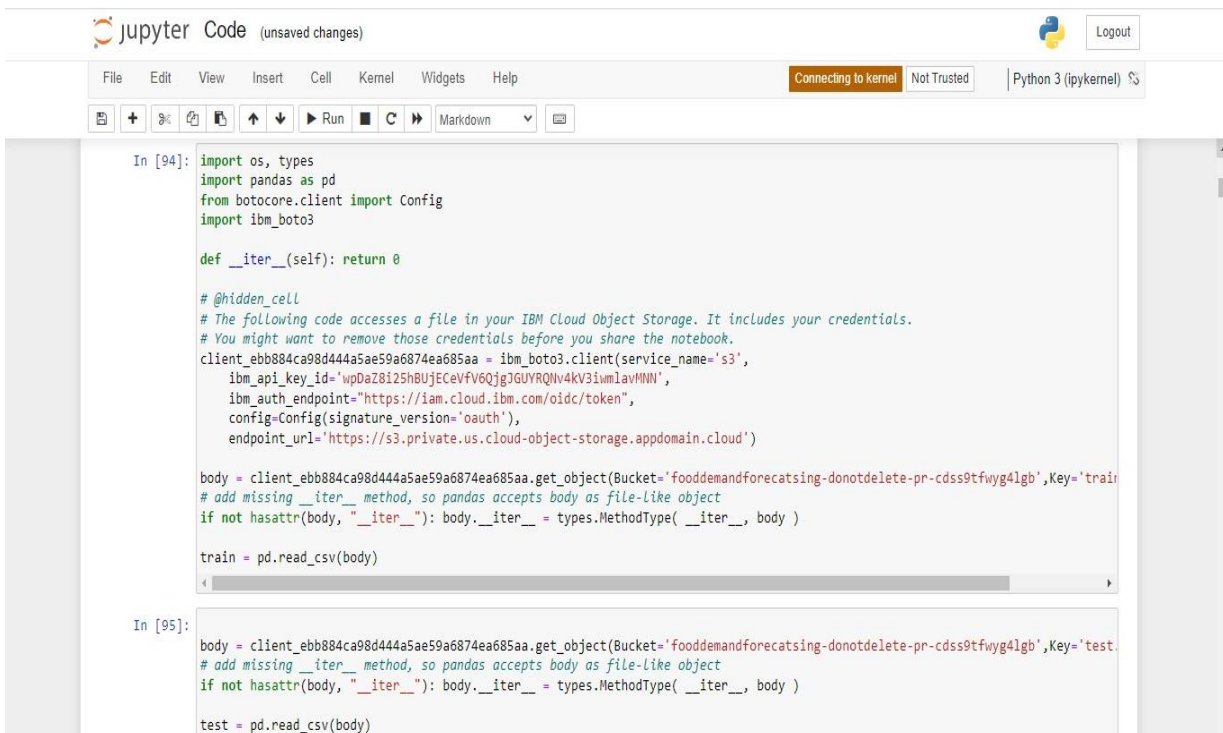
def __iter__(self): return 0

# @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='wpDa28i25hBUjECeVfV6Qjg3GUYRQNV4kV3iwmIavMNN',
    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
```



The image shows a Jupyter Notebook interface with the title "jupyter Code (unsaved changes)". The top bar includes a "Connecting to kernel" status, a "Not Trusted" warning, and the kernel name "Python 3 (ipykernel)". The notebook has a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". Below the menu is a toolbar with icons for saving, undo, redo, and running code. The main area contains two code cells. The first cell, labeled "In [94]:", imports necessary libraries and defines a function to read a CSV file from IBM Cloud Object Storage. The second cell, labeled "In [95]:", uses the function to read a specific CSV file. The code is as follows:

```
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='wpDa28i25hBUjECeVfV6Qjg3GUYRQNV4kV3iwmIavMNN',
    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')

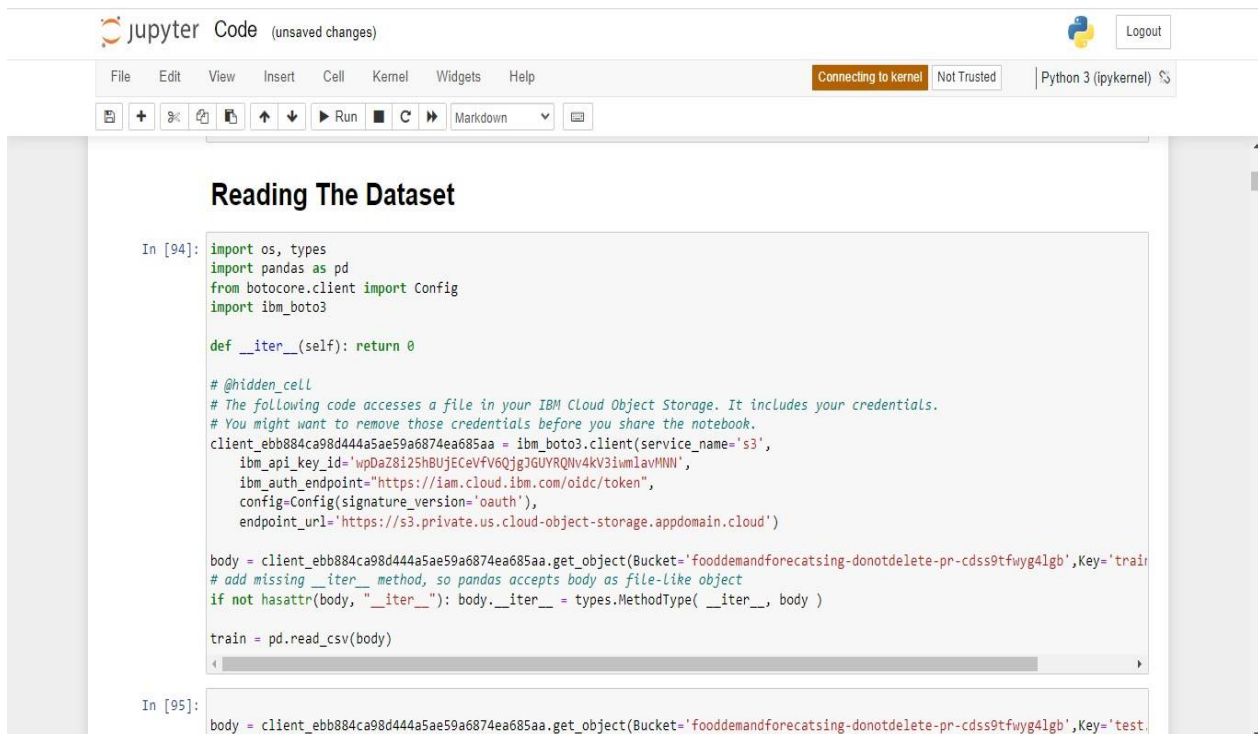
body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

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 image shows a Jupyter Notebook interface with the title "jupyter Code (unsaved changes)". The top bar includes a "Logout" button and a status bar indicating "Connecting to kernel", "Not Trusted", and "Python 3 (ipykernel)". The notebook has a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". Below the menu bar is a toolbar with icons for file operations, cell navigation, and execution. The main content area displays two code cells. The first cell, labeled "In [94]:", contains code to import necessary libraries, configure boto3 with IBM Cloud Object Storage credentials, and read a CSV file from a bucket. The second cell, labeled "In [95]:", contains code to retrieve another object from the same bucket and read it as a CSV file.

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

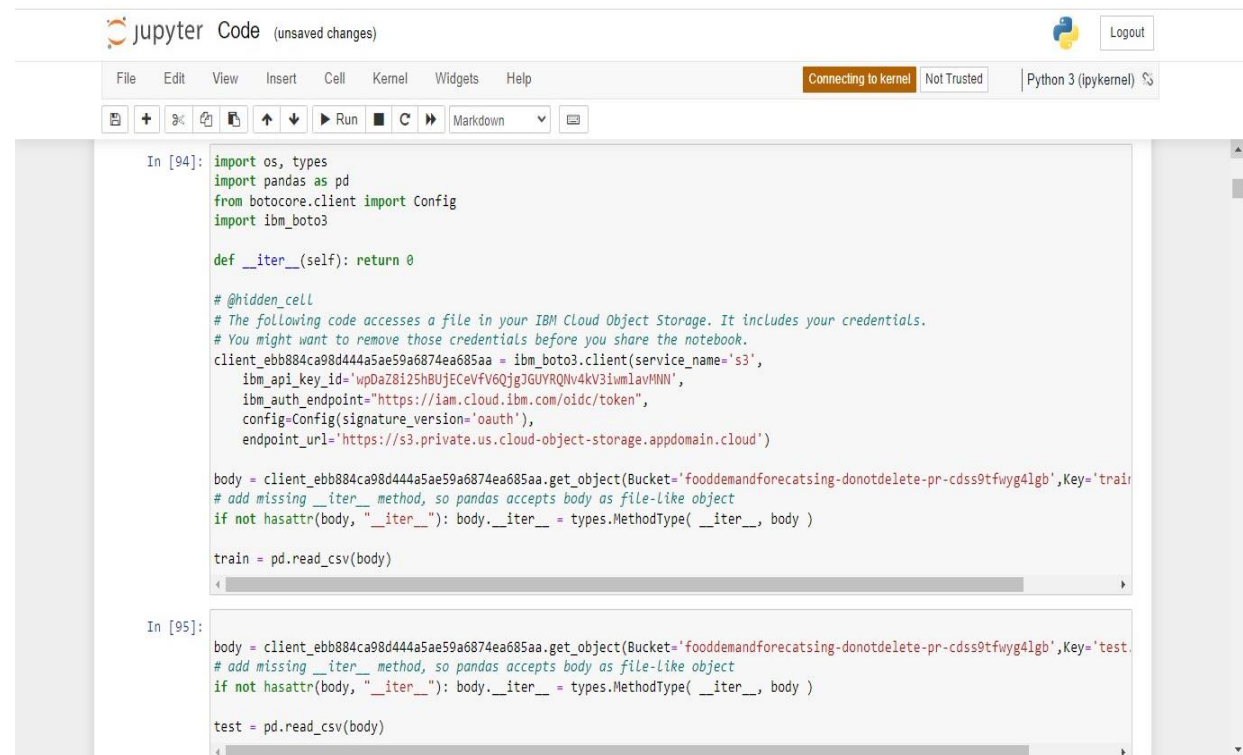
def __iter__(self): return 0

# @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='wpDaZ8i25hBUjECeVfV6QjgJGUYRQNV4kV3iwmIavMNN',
    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')
```



The image shows a Jupyter Notebook interface with the title "jupyter Code (unsaved changes)". The top bar includes a "Logout" button and a status bar indicating "Connecting to kernel", "Not Trusted", and "Python 3 (ipykernel)". The notebook has a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". Below the menu bar is a toolbar with icons for file operations, cell navigation, and execution. The main content area displays two code cells. The first cell, labeled "In [94]:", contains code to import necessary libraries, configure boto3 with IBM Cloud Object Storage credentials, and read a CSV file from a bucket. The second cell, labeled "In [95]:", contains code to retrieve another object from the same bucket and read it as a CSV file.

```
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='wpDaZ8i25hBUjECeVfV6QjgJGUYRQNV4kV3iwmIavMNN',
    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')

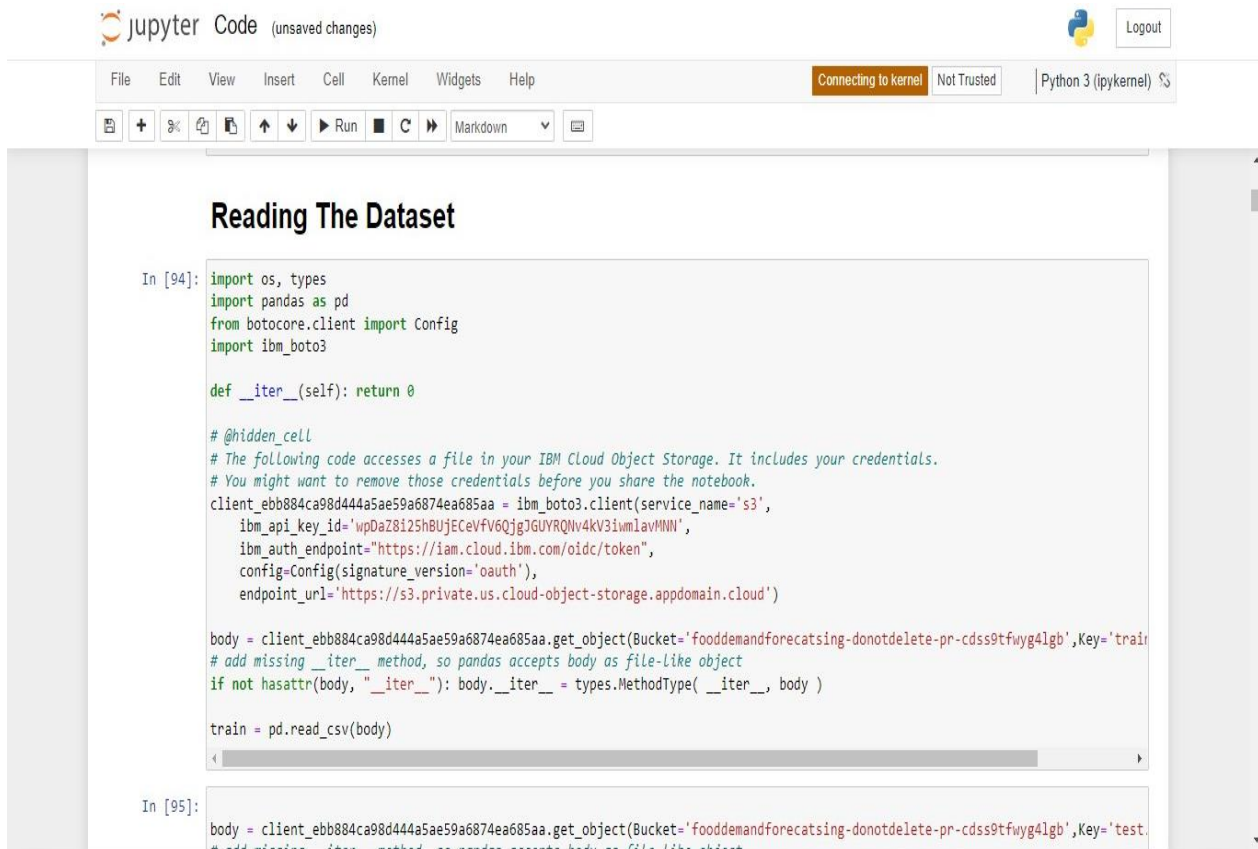
body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType( __iter__, body )

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 3



The image shows a Jupyter Code interface with a notebook titled "Reading The Dataset". The interface includes a top bar with the Jupyter logo, "Code" label, and "(unsaved changes)". On the right, there is a "Logout" button. Below the top bar is a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". To the right of the menu bar are status indicators: "Connecting to kernel", "Not Trusted", and "Python 3 (ipykernel)". Below the menu bar is a toolbar with icons for file operations, cell navigation, and execution. The notebook content is displayed in a light gray box. It starts with a title "Reading The Dataset" in bold. Below the title is a code cell labeled "In [94]:". The code in this cell imports necessary libraries and defines a custom iterator for a pandas DataFrame. It then reads a CSV file from IBM Cloud Object Storage into a pandas DataFrame named 'train'. A second code cell labeled "In [95]:" is partially visible, showing the start of another code block that reads a test CSV file.

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

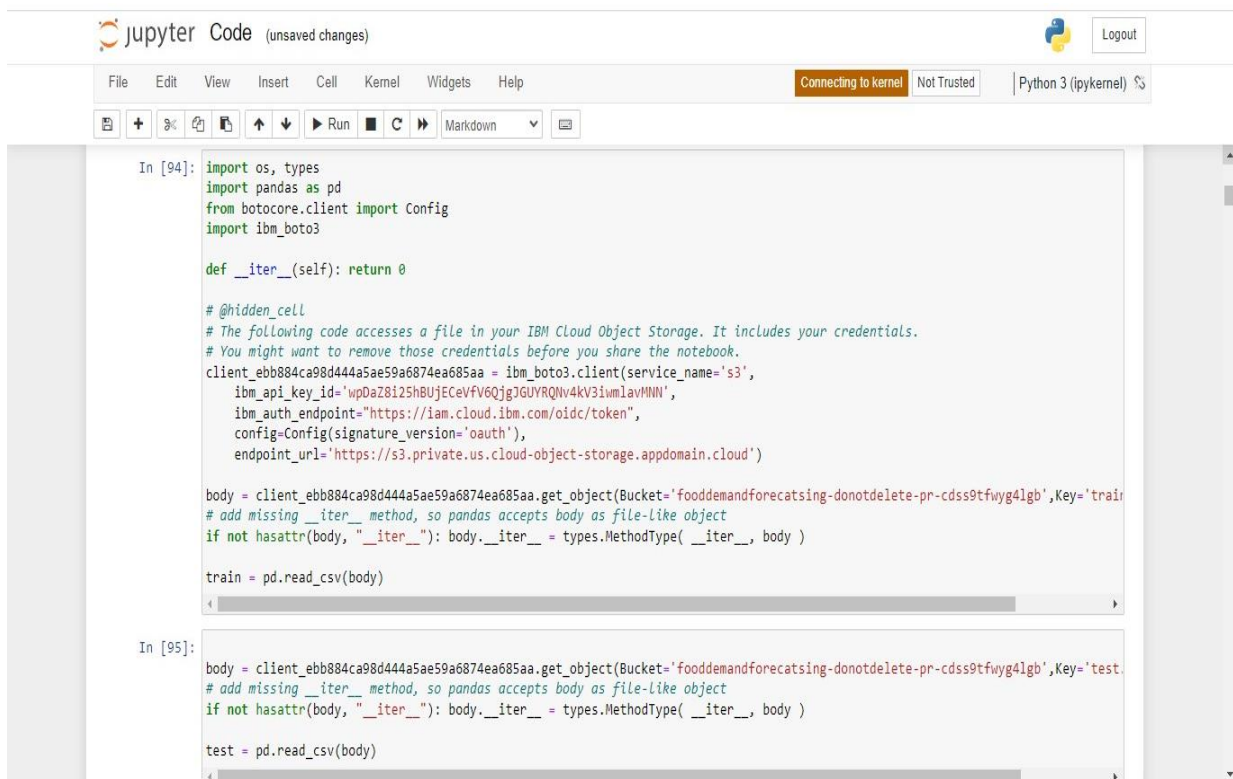
def __iter__(self): return 0

# @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='wpDaZ8i25hBUjECeVfV6Qjg3GUYRQNV4KV3iwm1avMNN',
    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
```



The image shows a Jupyter Code interface with a notebook. The interface is similar to the one above, with a top bar, menu bar, and toolbar. The notebook content is displayed in a light gray box. It contains two code cells. The first code cell, labeled "In [94]:", is identical to the one in the first image. It imports necessary libraries, defines a custom iterator, and reads a CSV file from IBM Cloud Object Storage into a pandas DataFrame named 'train'. The second code cell, labeled "In [95]:", is also identical to the one in the first image. It reads a test CSV file from IBM Cloud Object Storage into a pandas DataFrame named 'test'.

```
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='wpDaZ8i25hBUjECeVfV6Qjg3GUYRQNV4KV3iwm1avMNN',
    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)
```