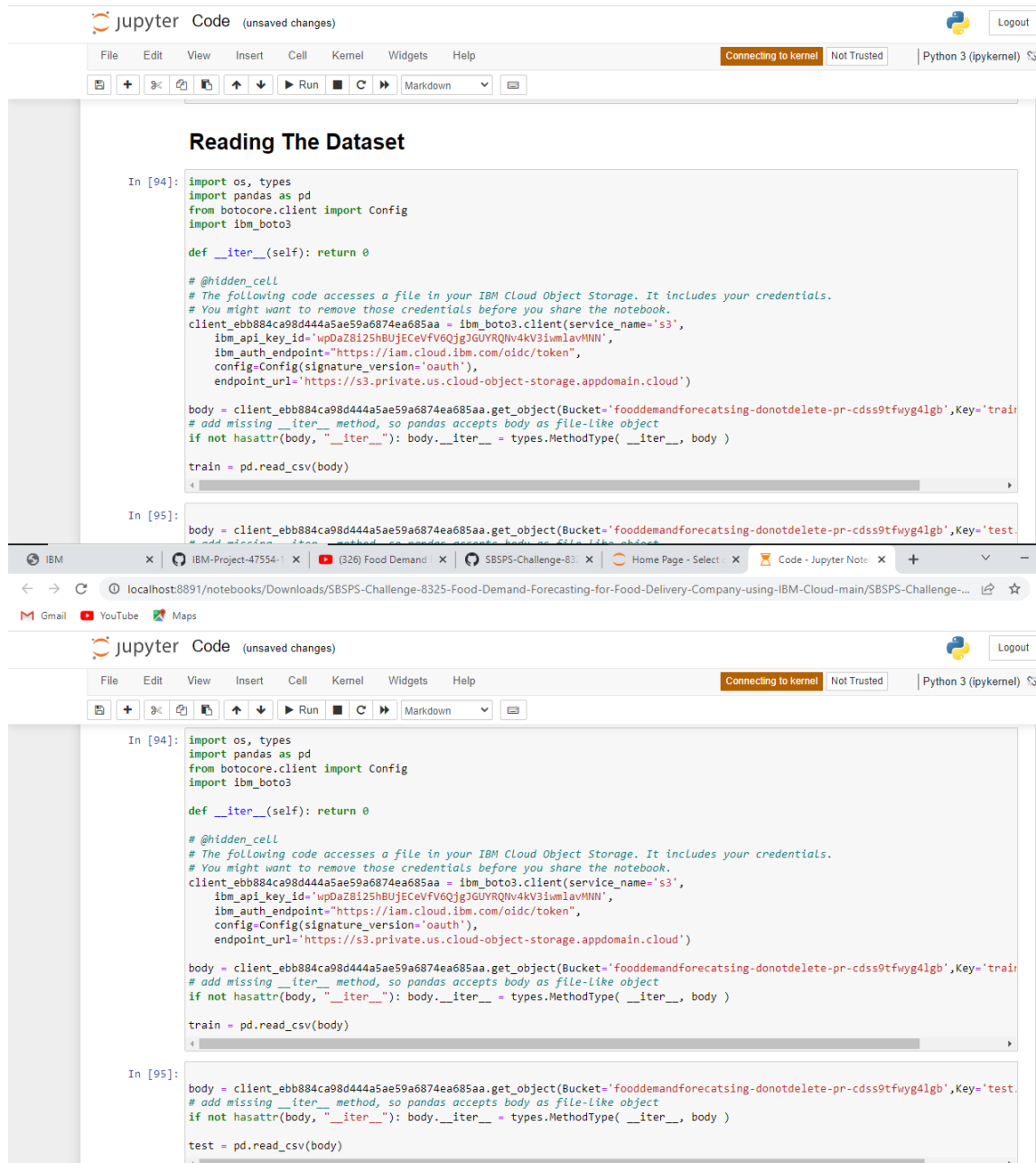


TEAM ID: PNT2022TMID52731

PROJECT NAME: DemandEst - AI powered Food Demand Forecaster



The screenshot displays a Jupyter Notebook interface with two code cells. The top cell, labeled 'In [94]:', contains code to import necessary libraries (os, types, pandas, boto3, Config, ibm_boto3), define a custom iterator method, and read a CSV file from IBM Cloud Object Storage into a pandas DataFrame named 'train'. The bottom cell, labeled 'In [95]:', continues the process by reading another CSV file from the same storage into a pandas DataFrame named 'test'. The notebook interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a toolbar with icons for file operations and execution, and a status bar at the bottom showing the current kernel as 'Python 3 (ipykernel)'.

```
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')

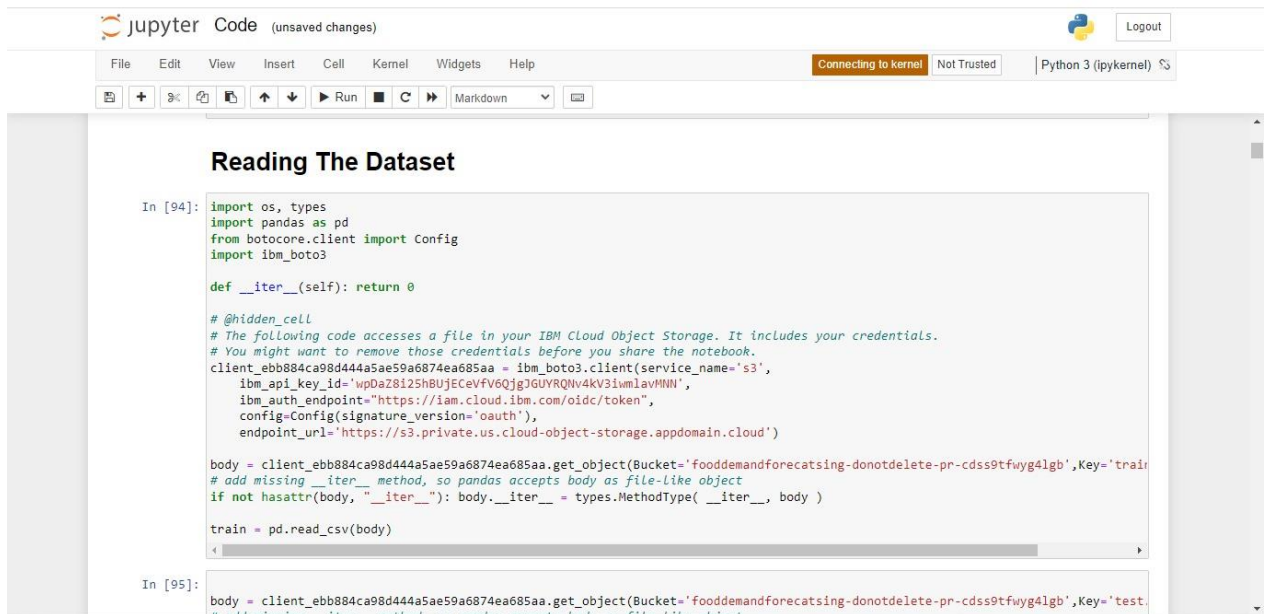
body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

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)
```

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 content area is titled "Reading The Dataset" and contains two code cells. The first cell, labeled "In [94]:", imports necessary libraries and defines a custom iterator for a file object. The second cell, labeled "In [95]:", uses the iterator to read a CSV file from IBM Cloud Object Storage.

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

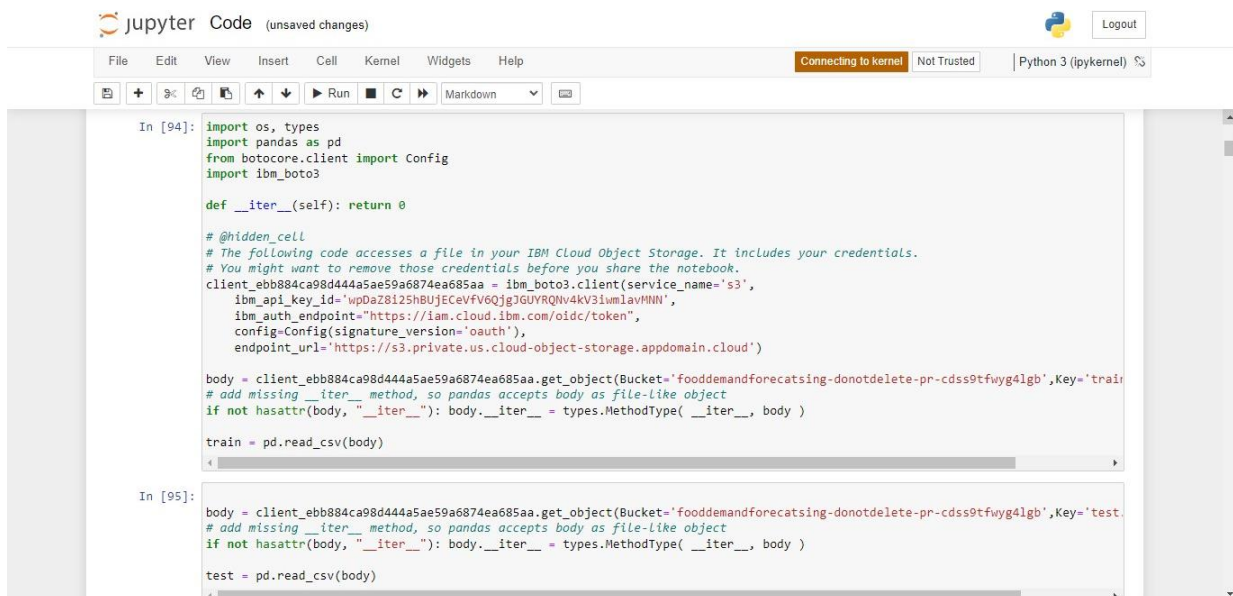
def __iter__(self): return 0

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    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 content area contains two code cells. The first cell, labeled "In [94]:", imports necessary libraries and defines a custom iterator for a file object. The second cell, labeled "In [95]:", uses the iterator to read a CSV file from IBM Cloud Object Storage.

```
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.
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    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')

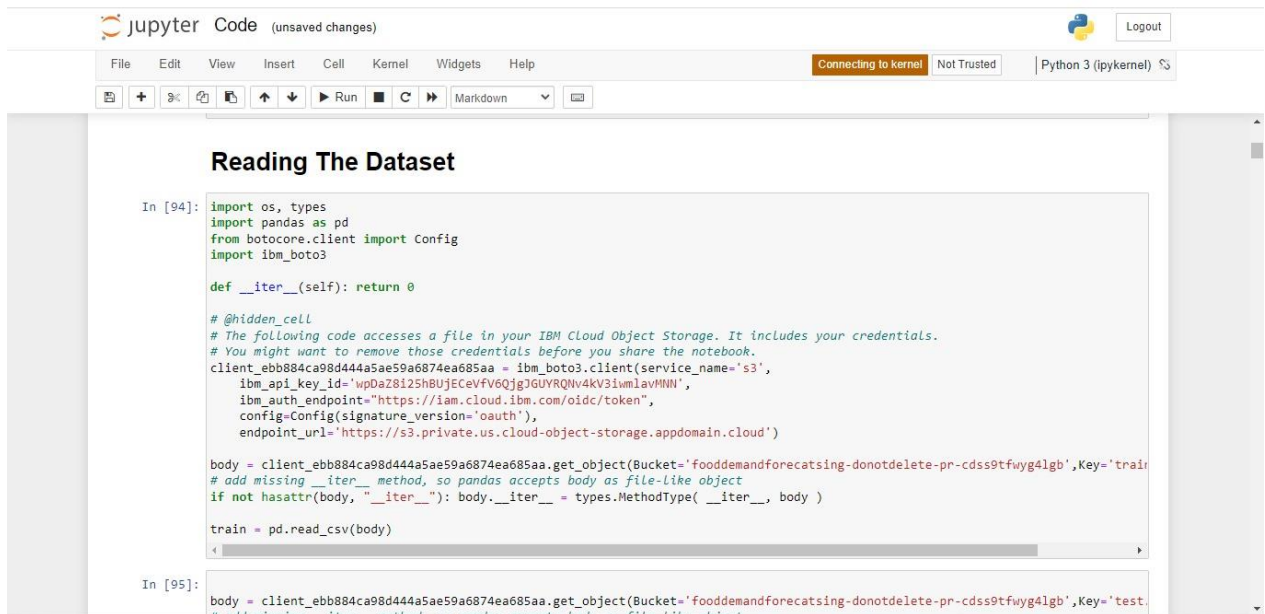
body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecatsing-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType( __iter__, body )

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 "Connecting to kernel" status, a "Not Trusted" warning, and the selected kernel "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 content area is titled "Reading The Dataset". It 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 and stores it in a variable named 'train'.

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

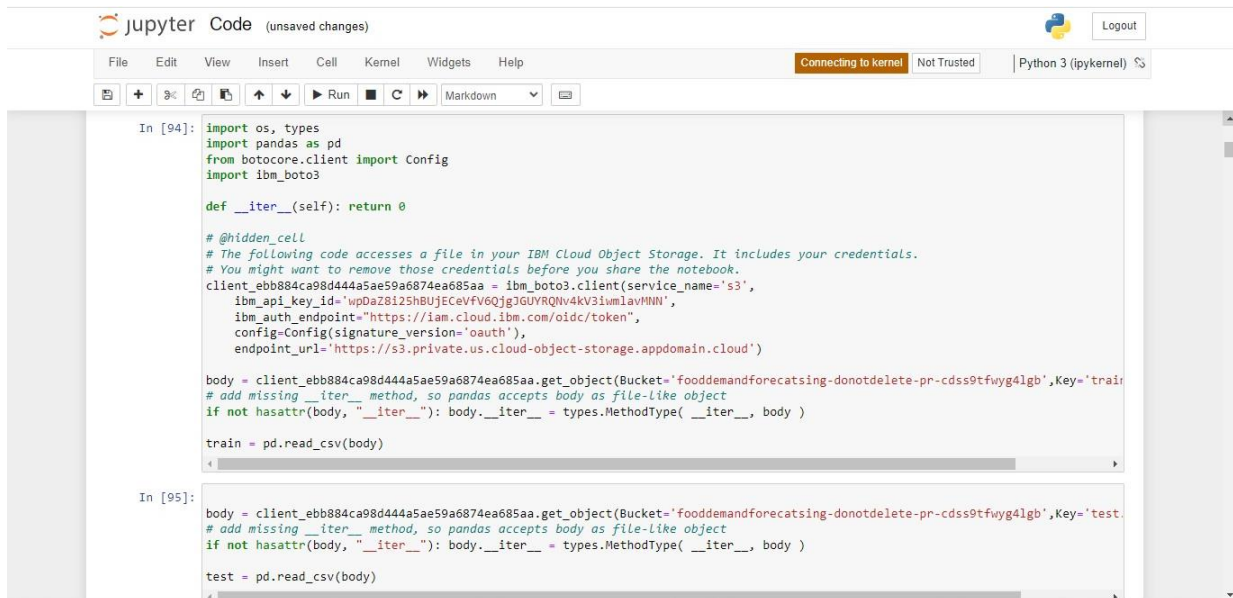
def __iter__(self): return 0

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    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='fooddemandforecating-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='fooddemandforecating-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 selected kernel "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 content 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 and stores it in a variable named 'test'.

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In [94]: import os, types
import pandas as pd
from botocore.client import Config
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def __iter__(self): return 0

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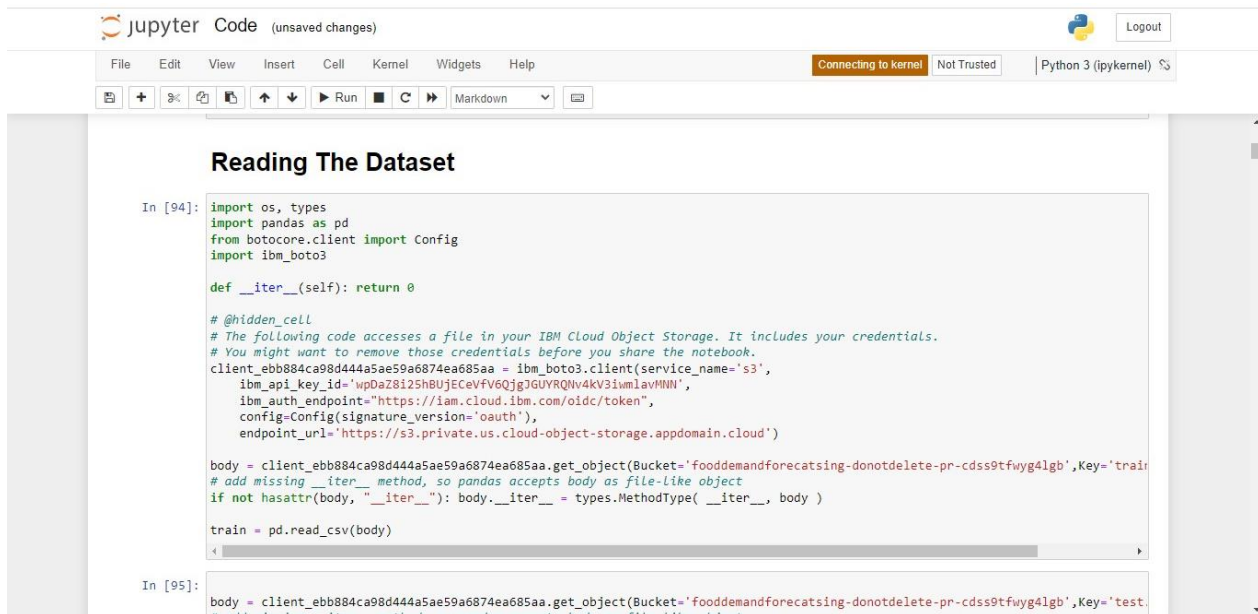
body = client_ebb884ca98d444a5ae59a6874ea685aa.get_object(Bucket='fooddemandforecating-donotdelete-pr-cdss9tfwyg4lgb',Key='train')
# add missing __iter__ method, so pandas accepts body as file-like object
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train = pd.read_csv(body)

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

test = pd.read_csv(body)
```

Team Member 3



The image shows a Jupyter Notebook interface with the title "jupyter Code (unsaved changes)". The top bar includes a menu (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a status bar (Connecting to kernel, Not Trusted), and a language selector (Python 3 (ipykernel)). The notebook content is titled "Reading The Dataset". It contains two code cells. The first cell, labeled "In [94]:", imports necessary libraries (os, types, pandas, boto3, Config, ibm_boto3), defines a custom iterator class, and uses the boto3 client to retrieve a CSV file from IBM Cloud Object Storage. The second cell, labeled "In [95]:", continues the process by retrieving another CSV file from the same storage.

```
In [94]: import os, types
import pandas as pd
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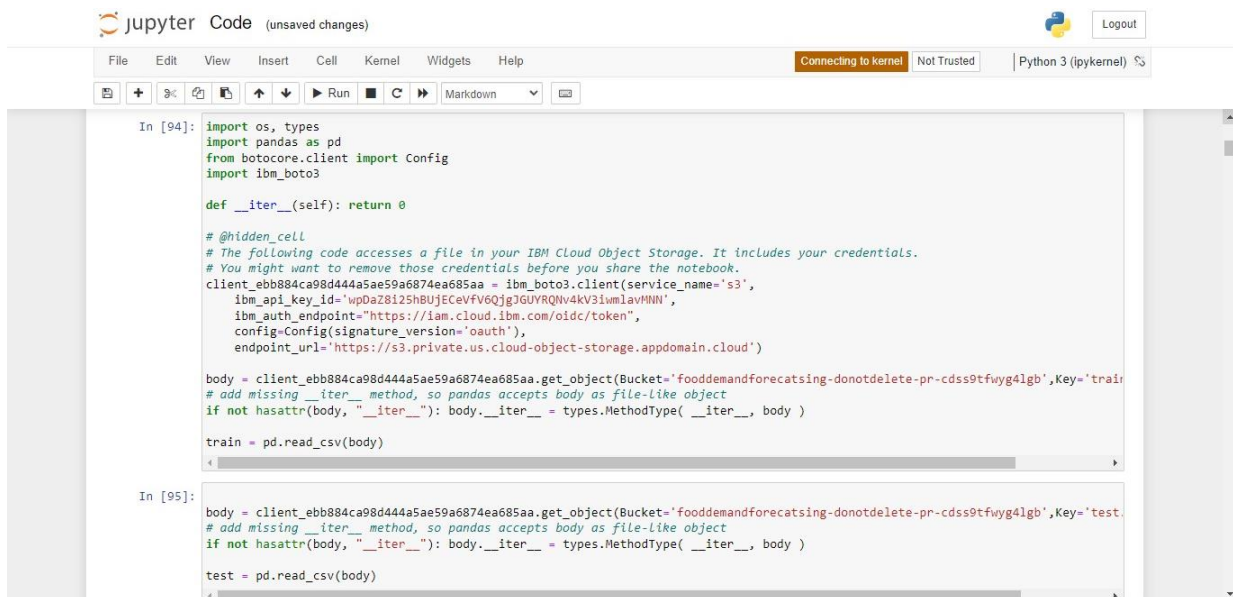
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train = pd.read_csv(body)

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
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The image shows a Jupyter Notebook interface with the title "jupyter Code (unsaved changes)". The top bar includes a menu (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a status bar (Connecting to kernel, Not Trusted), and a language selector (Python 3 (ipykernel)). The notebook content is titled "Reading The Dataset". It contains two code cells. The first cell, labeled "In [94]:", imports necessary libraries (os, types, pandas, boto3, Config, ibm_boto3), defines a custom iterator class, and uses the boto3 client to retrieve a CSV file from IBM Cloud Object Storage. The second cell, labeled "In [95]:", continues the process by retrieving another CSV file from the same storage.

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    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')

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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

test = pd.read_csv(body)
```