

reading_data

April 17, 2025

```
[3]: !pip install boto3
import boto3
from io import BytesIO
import pandas as pd
# you need to change the credentials for yourself
# Note that aws_access_key_id changes from time to time

s3 = boto3.client('s3',
                  aws_access_key_id='ASIAYAAO5HRMGKLEMBMS',
                  ↵
                  ↪aws_secret_access_key='kruEga0wl0Rdr7psOHKwbOHKPrb9pHV0j9wXc1s7',
                  aws_session_token='IQoJb3JpZ2luX2VjEN3/////////
                  ↪wEaCXVzLWVhc3QtMiJGMEQCIFsrsexFfDzAZ0cVL6EvZtieDN4kXK5D9WhwhhhWVsEJAiBYkMZU03qSvzma80th5GB9
                  ↪nnlmKkYdKsgCCvtLsQgrqOF7HguLBUg5GZ8p+/
                  ↪t1QhWEf5rdNqsthb+aVx5EudRNd2asOCifPAoWnMFE25Q7yr8gjnLnP0wN9vhqqZuZ0mDeCTlEDvBF2ZCUDusr9ibJp
                  ↪lCvIA2RvgeexCDn27excD8IimCUcIaCTY6NVWOC3bKLY2rgMRXdvmKFWtxpVhi+rI1X0x68yQILJB9TkXkM17Zh8b+h
                  ↪euuc7PenVbqeh/uRiGql5XEUQIZu/
                  ↪XUa4mj0Xkh3qF7DAVVXy0Ufay2xVyEk70xCD4MT56+EGLHk1b68v0s3o0a1SUZ5bCvk0IOjG/
                  ↪na6Uy9rtnojAFuGxn6k5a4RAFCChHCgMHaJAcLFtzC01oXABjqoAZQoPa58TErKvY6qt0jwE7qDAjBjWGcpFPe/
                  ↪qggyHBjf0clYEQjvY/tLsoCfkGYKPHHktZOCGWzYdZ30k5m5q7RGCYHJPmBWx1AmNTIFLr1Gf/
                  ↪f6f0usUnxTNvxR2Iu930CT3/eUyd27J2BNgo8YEdE3dhgi/
                  ↪+SUJWKCALEk8x0Pl00dPGB75RpUa4F4q9GkZrSNhI9yi/BFDn0Yo0gZioX3KxTdqF0TKA==')

bucket_name = 'de300spring2025'
object_key = 'dinglin_xia/sample_dataset.csv'
csv_obj = s3.get_object(Bucket=bucket_name, Key=object_key)
body = csv_obj['Body']
csv_string = body.read().decode('utf-8')
df = pd.read_csv(BytesIO(csv_string.encode()))
print(df.head())
```

Requirement already satisfied: boto3 in /opt/conda/lib/python3.11/site-packages (1.37.36)

Requirement already satisfied: botocore<1.38.0,>=1.37.36 in /opt/conda/lib/python3.11/site-packages (from boto3) (1.37.36)

Requirement already satisfied: jmespath<2.0.0,>=0.7.1 in /opt/conda/lib/python3.11/site-packages (from boto3) (1.0.1)

Requirement already satisfied: s3transfer<0.12.0,>=0.11.0 in
/opt/conda/lib/python3.11/site-packages (from boto3) (0.11.5)
Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in
/opt/conda/lib/python3.11/site-packages (from botocore<1.38.0,>=1.37.36->boto3)
(2.8.2)
Requirement already satisfied: urllib3!=2.2.0,<3,>=1.25.4 in
/opt/conda/lib/python3.11/site-packages (from botocore<1.38.0,>=1.37.36->boto3)
(2.0.7)
Requirement already satisfied: six>=1.5 in /opt/conda/lib/python3.11/site-
packages (from python-dateutil<3.0.0,>=2.1->botocore<1.38.0,>=1.37.36->boto3)
(1.16.0)

| | first_name | last_name | age | gender | occupation | city | state |
|---|------------|-----------|-----|--------|----------------|---------------|-------|
| 0 | John | Doe | 30 | Male | Engineer | New York | NY |
| 1 | Jane | Doe | 28 | Female | Engineer | Los Angeles | CA |
| 2 | Bob | Smith | 45 | Male | Analyst | Chicago | IL |
| 3 | Alice | Johnson | 35 | Female | Data Scientist | San Francisco | CA |
| 4 | Tom | Brown | 50 | Male | Lawyer | Miami | FL |

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