OUBT Week 1 – Day 2–3: Python & Pandas & Boto3 Practice

Author: Likhith Sasank Uppalapati Venkata

Folder Structure: DAY2_PYTHON_BOTO3_PANDAS/

1. Python Practice

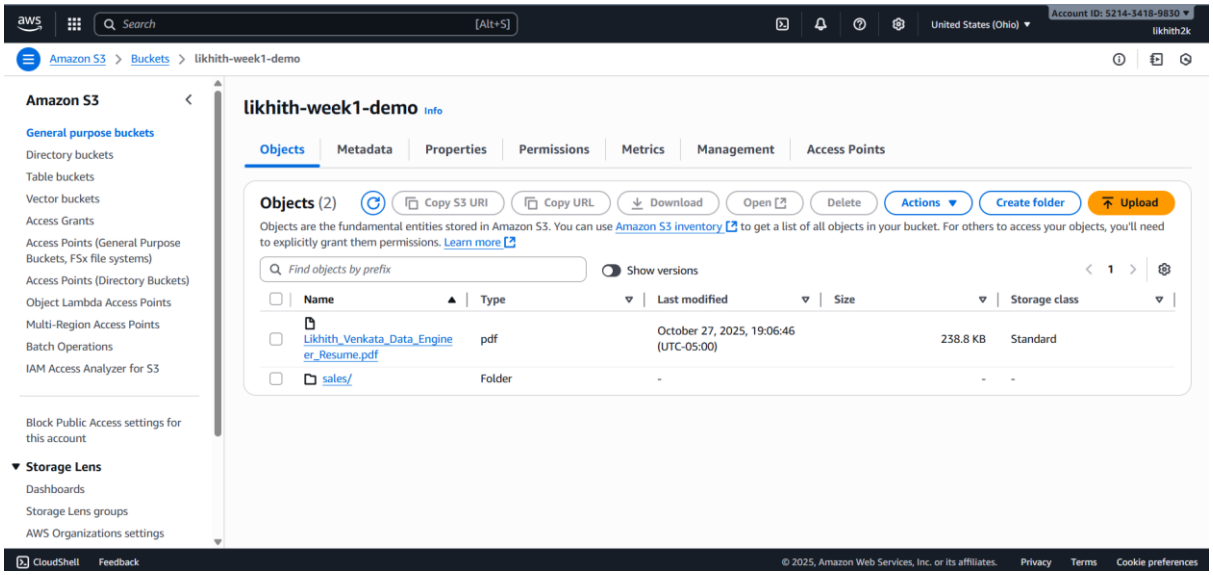
- Practiced core Python concepts such as lists, dictionaries, loops, functions, and error handling.
- Created and managed simple CSV files for student scores and invoice records.
- Worked with data filtering and conditional logic using Python structures.
- Focused on writing clean, reusable functions and handling exceptions gracefully.

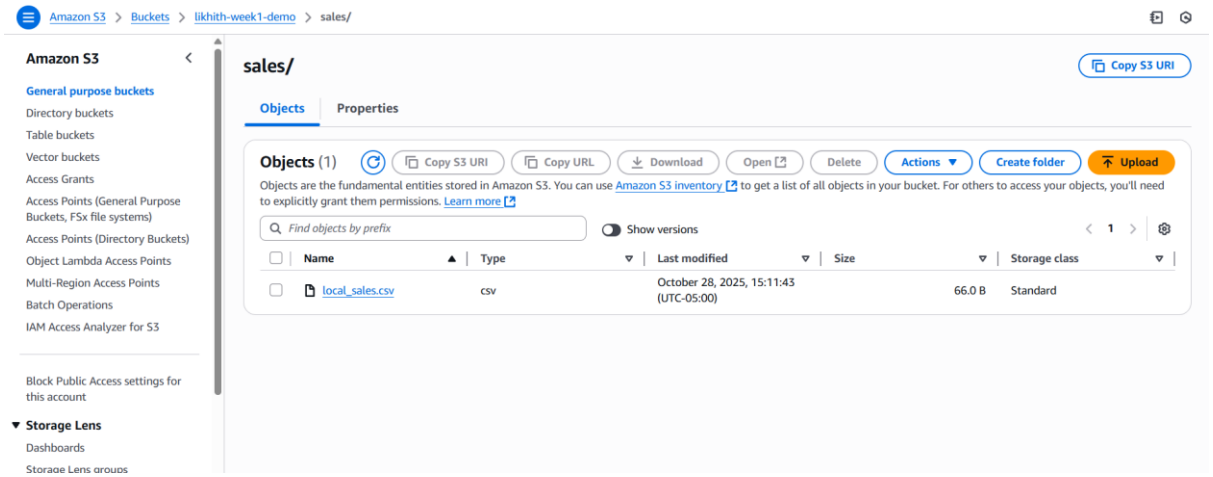
2. Pandas Practice

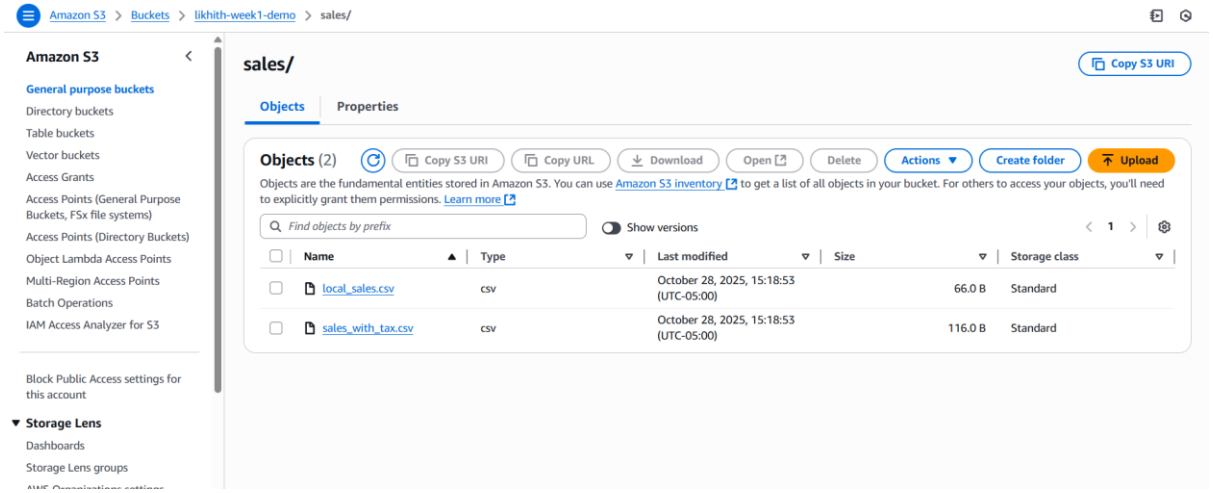
- Learned to create, read, and manipulate datasets using Pandas.
- Performed basic data cleaning by removing duplicates and adding calculated columns.
- Aggregated and analyzed data to find total sales and quantities.
- Combined multiple datasets into a single, cleaned file for further use.

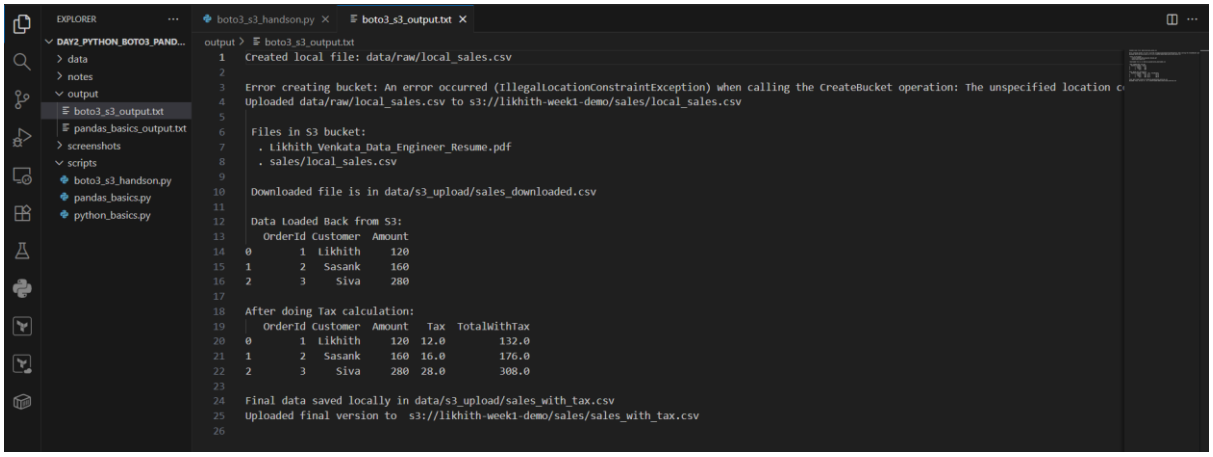
3. AWS S3 (Boto3) Practice

- Installed and configured Boto3 to connect Python with AWS S3.
- Created and managed an S3 bucket for uploading, listing, and downloading files.
- Integrated Pandas with AWS S3 to upload processed data and retrieve it for analysis.
- Practiced automating simple data workflows between local and cloud storage.


aws
Search
[Alt+S]
United States (Ohio)
Account ID: 5214-3418-9830
likhith2k
Amazon S3 > Buckets > likhith-week1-demo
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
likhith-week1-demo Info
Objects
Metadata
Properties
Permissions
Metrics
Management
Access Points
Objects (2)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Find objects by prefix
Show versions
Name
Type
Last modified
Size
Storage class
Likhith_Venkata_Data_Engineer_Resume.pdf
pdf
October 27, 2025, 19:06:46 (UTC-05:00)
238.8 KB
Standard
sales/
Folder
-
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Amazon S3 > Buckets > likhith-week1-demo > sales/
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
Storage Lens groups
sales/
Copy S3 URI
Objects
Properties
Objects (1)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Find objects by prefix
Show versions
Name
Type
Last modified
Size
Storage class
local_sales.csv
csv
October 28, 2025, 15:11:43 (UTC-05:00)
66.0 B
Standard


Amazon S3 > Buckets > likhith-week1-demo > sales/
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
Storage Lens groups
sales/
Copy S3 URI
Objects
Properties
Objects (2)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Find objects by prefix
Show versions
Name
Type
Last modified
Size
Storage class
local_sales.csv
csv
October 28, 2025, 15:18:53 (UTC-05:00)
66.0 B
Standard
sales_with_tax.csv
csv
October 28, 2025, 15:18:53 (UTC-05:00)
116.0 B
Standard



4. Summary

During these sessions, I improved my understanding of Python and file handling, worked on data cleaning and analysis using Pandas, and practiced using AWS S3 with Boto3 for cloud data management. I also organized my work with a proper folder structure, keeping raw, processed, and uploaded data separate, and saving all outputs and screenshots in their own folders. This helped me follow good project practices and build a smooth workflow that connects Python, Pandas, and AWS for managing and analyzing data.