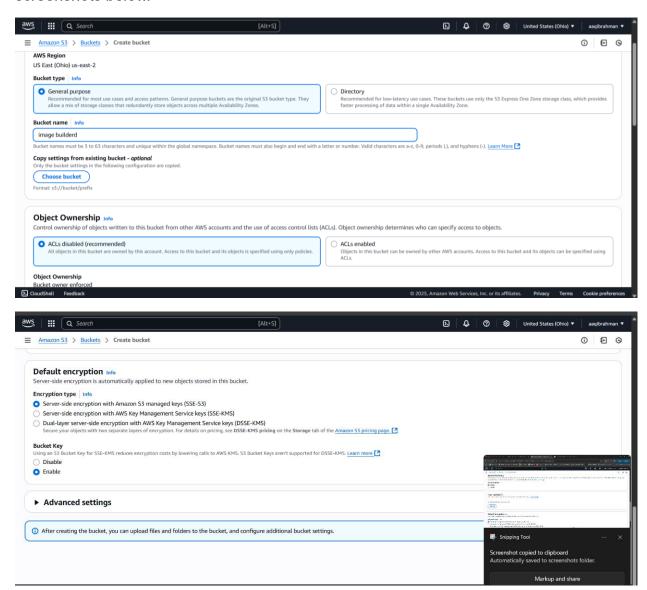
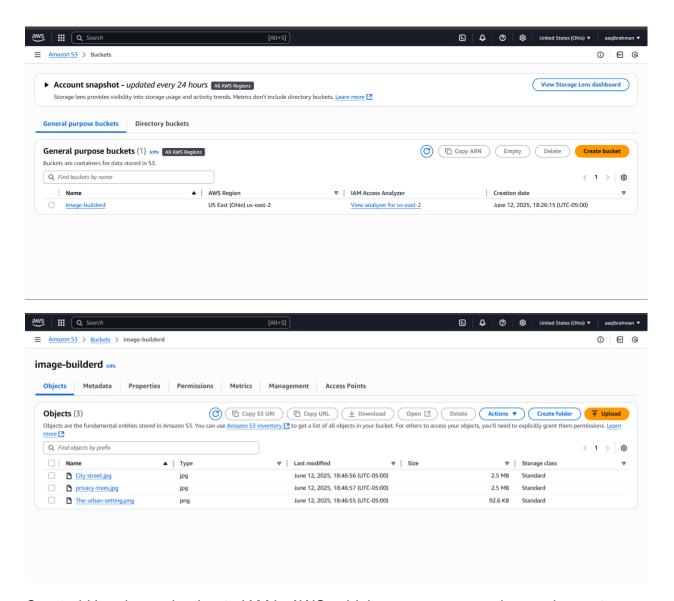
image label generator

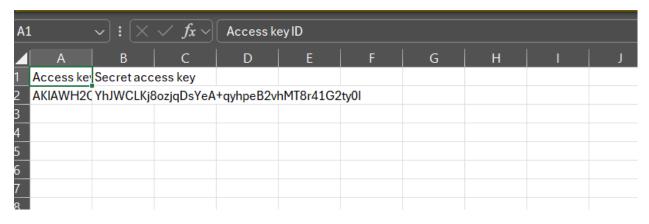
In this project, i will be building an image labels generator, using Amazon Rekognition. Once built, it will be able to recognize and label images. For example, if you have a photo of a cat, Amazon Recognition will be able to identify what it is, and label the image as a cat.

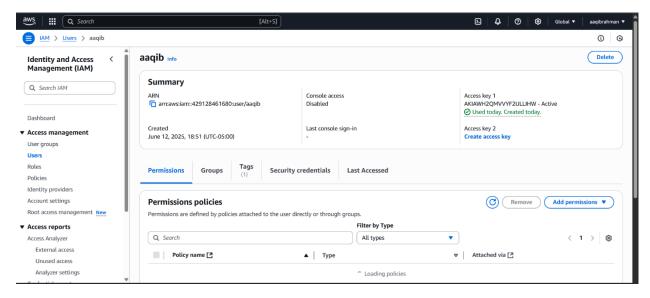
I have created bucket in S3 and uploaded some images as you can see the screenshots below.





Created User by navigating to IAM in AWS, which gave me access key and secret access key





Then opened my cmd and installed AWS CLI using "msiexec.exe /i https://awscli.amazonaws.com/AWSCLIV2.msi"

To configure your AWS CLI, I've run the following command in the terminal: "aws configure"

Running this command will ask for a access key and secret access key. I've entered access key and secret access key

1. The general flow of the command line would look like:

PS H:\AWS-beginner-friendly-projects\Image label> aws configure

AWS Access Key ID [**************L4TV]: ************

Default region name [us-east-1]: us-east-1

Default output format [None]: None

I have configured our AWS CLI.

I've VSCode to create a .py file for writing my coding.

imported the necessary libraries:

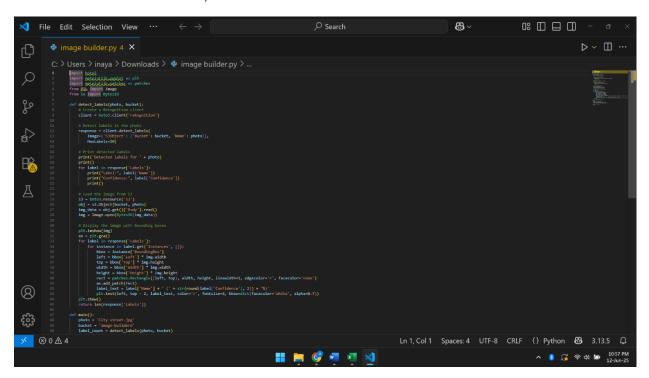
- boto3 for interacting with AWS services.
- matplotlib for visualization.
- PIL (Python Imaging Library) for handling image data.

BytesIO from the io module to work with image data.

Then,

- I've created a **Rekognition** client using boto3.
- I've used the detect_labels method of the Rekognition client to detect labels in the given photo.
- I've printed the detected labels along with their confidence levels.
- I've uploaded the image from the S3 bucket using boto3 and PIL.
- I've used matplotlib to display the image and draw bounding boxes around the detected objects.

The final code will look like,



After running the python file I've got an output with 10 detected labels and their confidence levels and a pop-up screen displaying the image that was uploaded on my S3 bucket with the bounding boxes present on the generated labels as you can see the screenshot I've pasted below.

