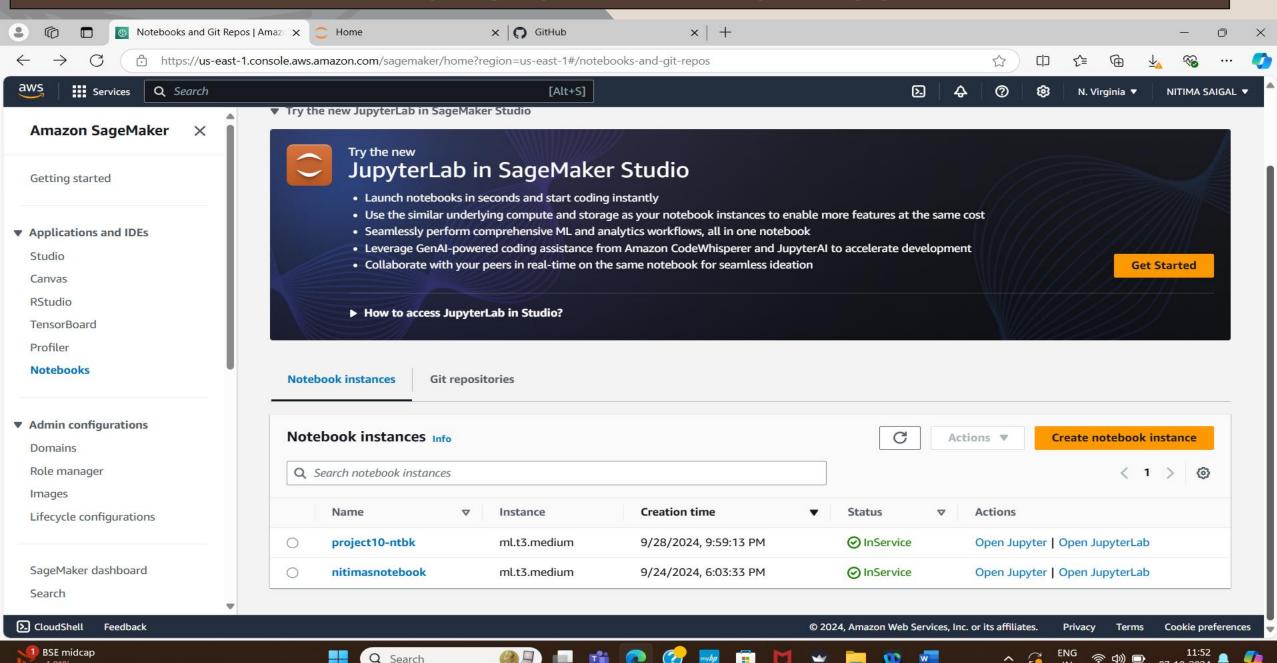
# Custom OCR on AWS

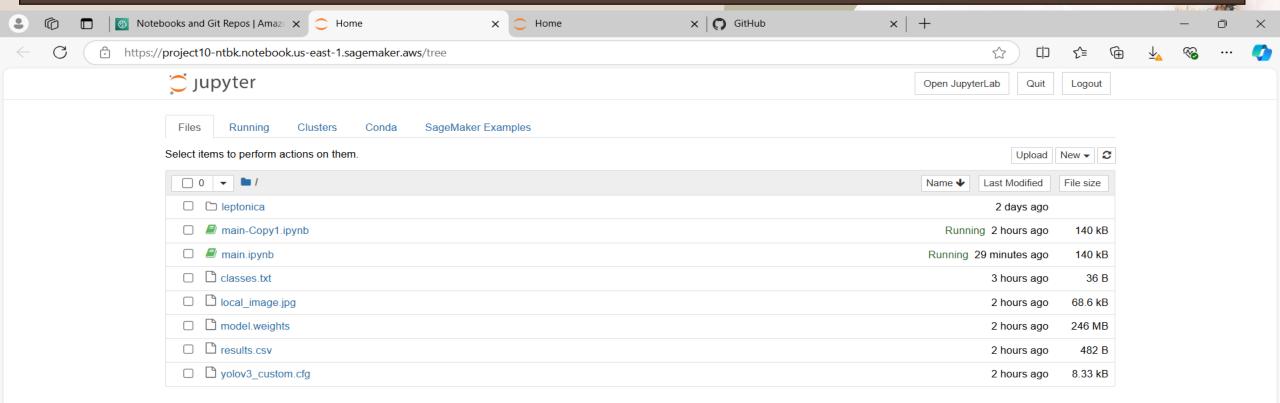


BUILDING A CUSTOM OCR BY COMBINING YOLO AND TESSERACT, TO READ THE SPECIFIC CONTENTS OF A LAB AND TRAINING A CUSTOM YOLO\_V3 MODEL USING OUR CUSTOM DATASET.

### **AMAZON SAGEMAKER NOTEBOOK**



### **AMAZON SAGEMAKER NOTEBOOK FILES**































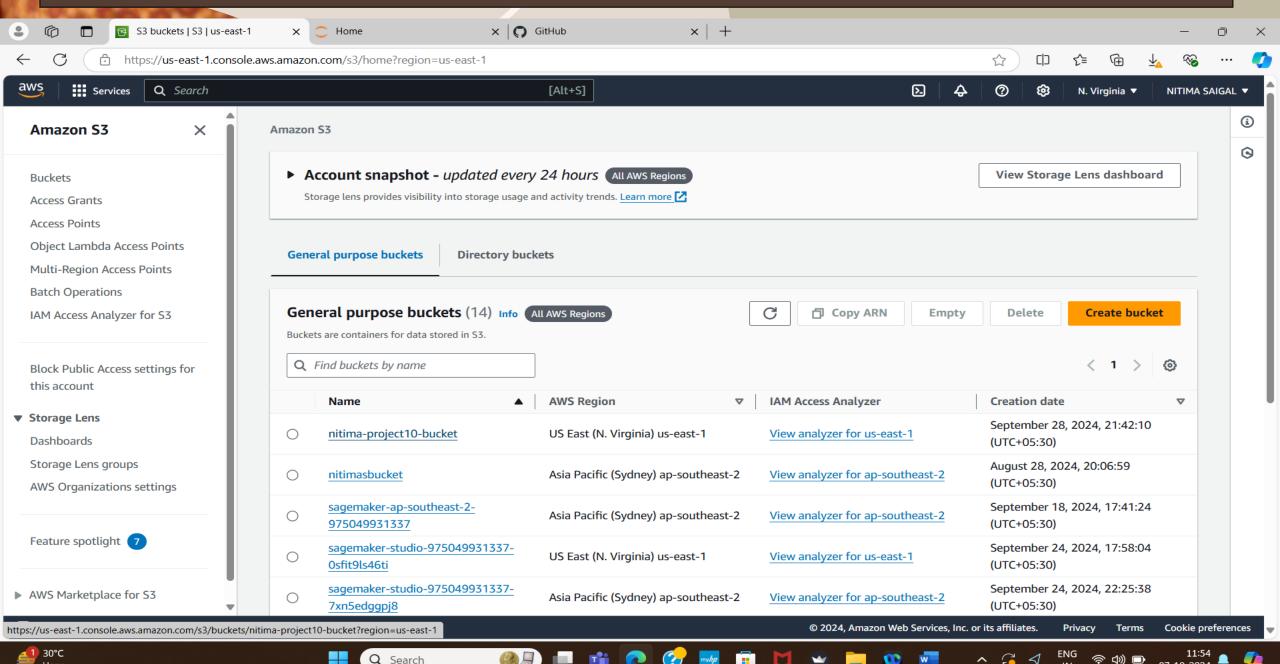




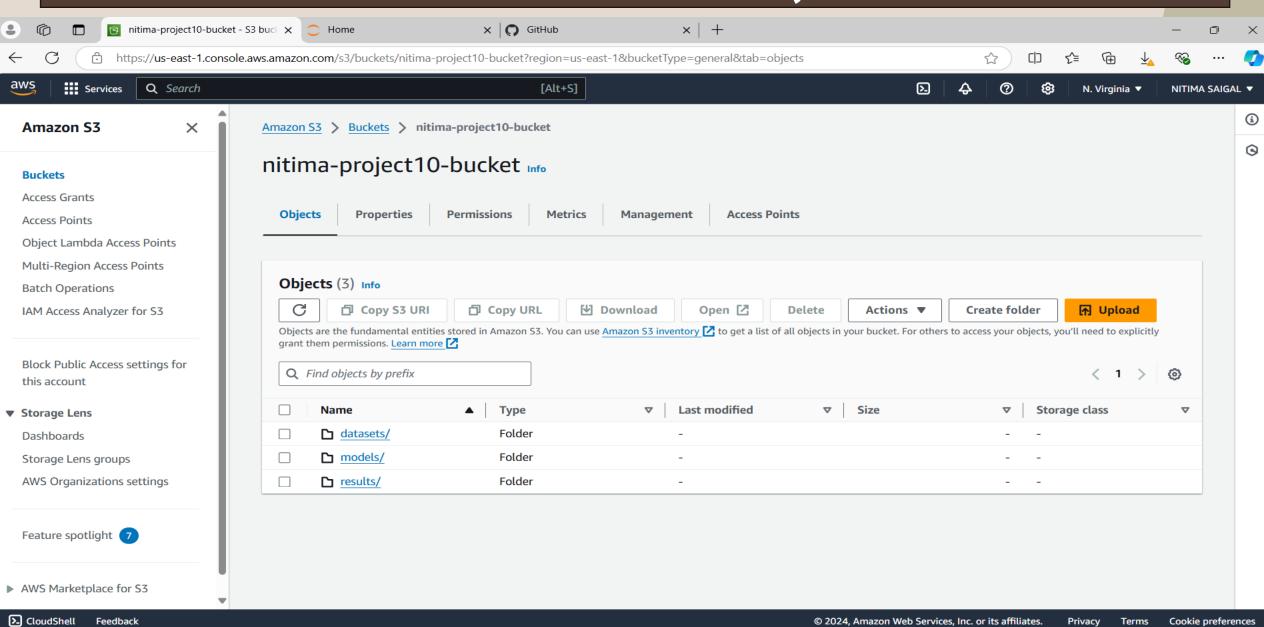




### **AMAZON S3 BUCKET**



# AMAZON S3 BUCKET FILES - DATASETS, MODELS & RESULTS





























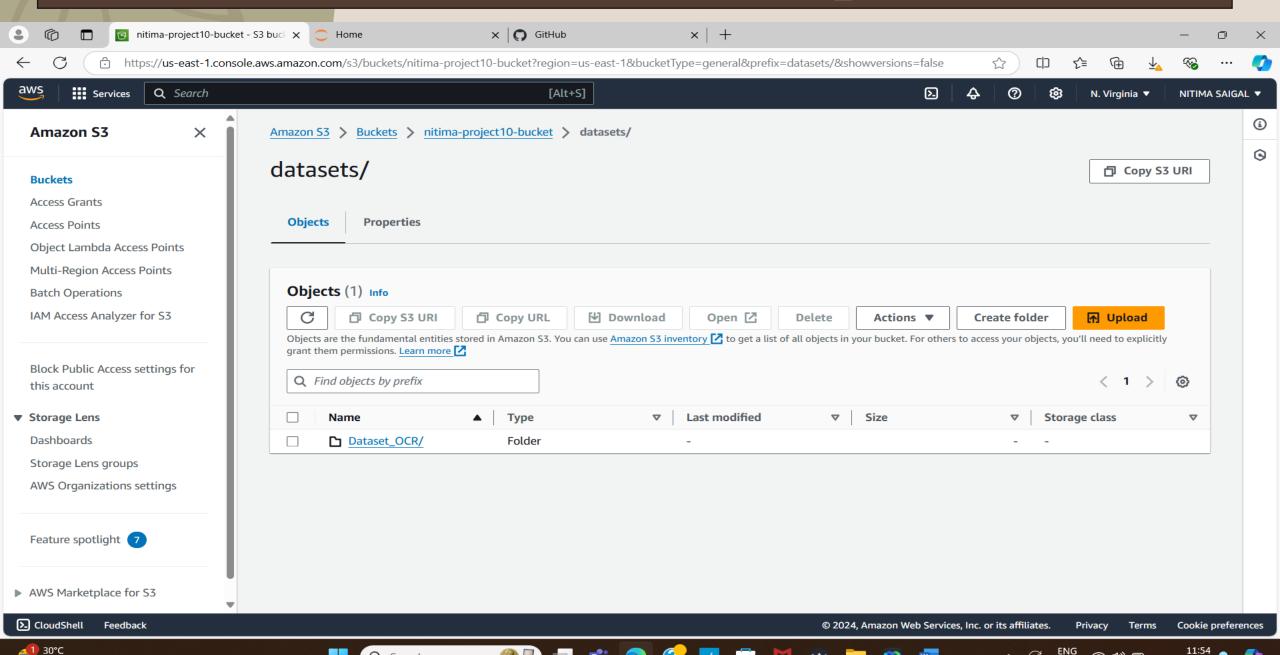






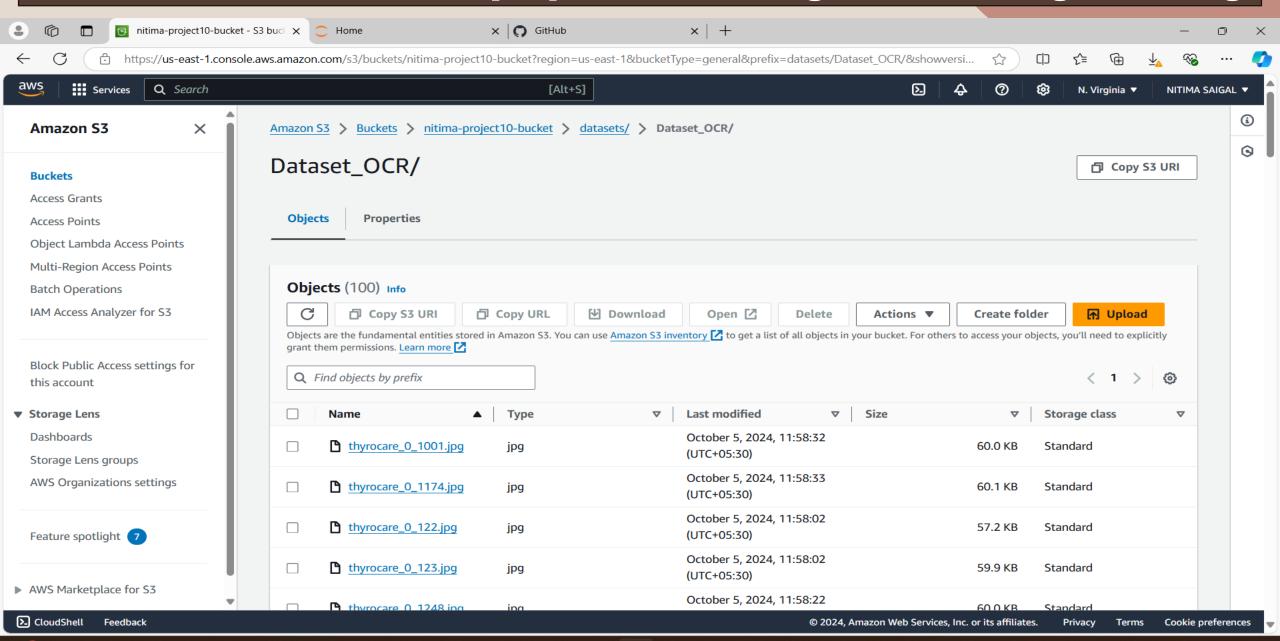


# **DATASETS** contains Dataset\_OCR



Q Search

# Dataset\_OCR contains all preprocessed images for training & testing

























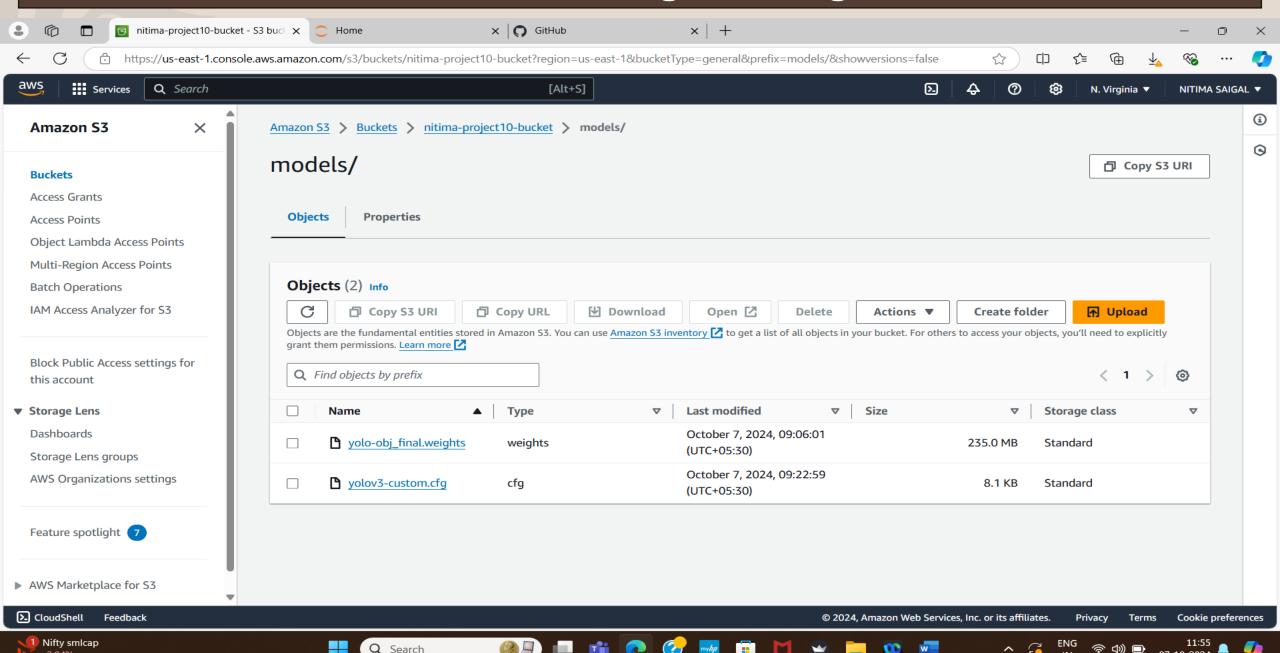






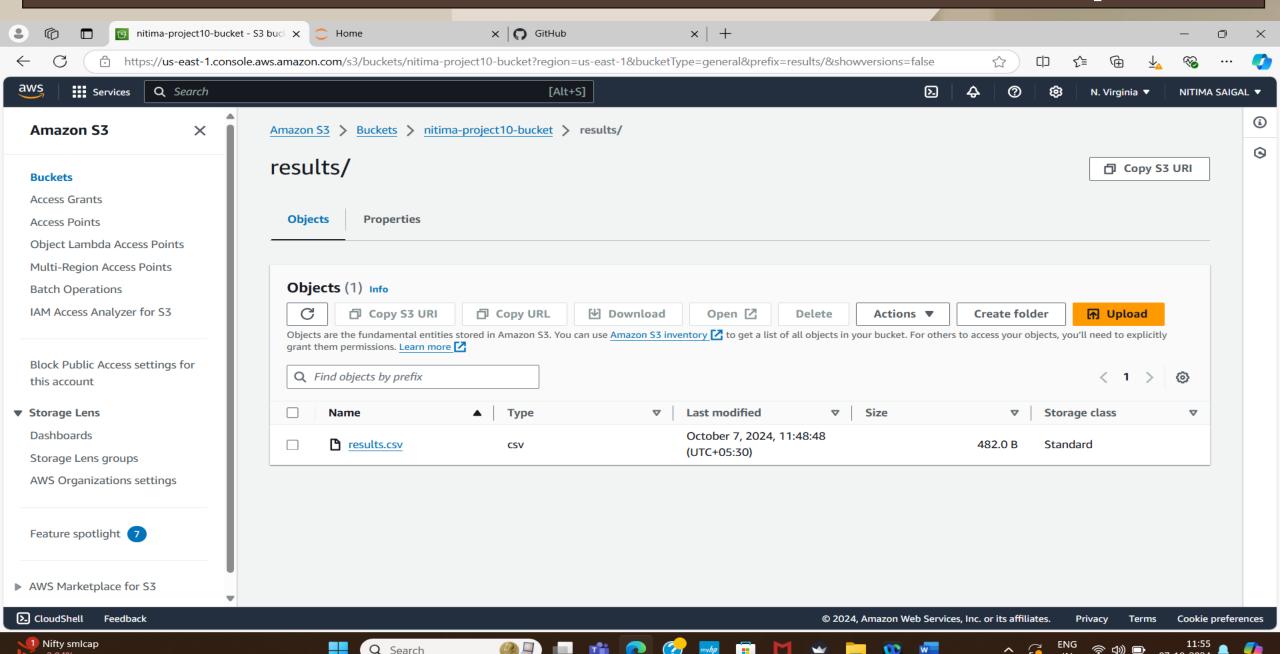


# Models contains both cfg and weights models



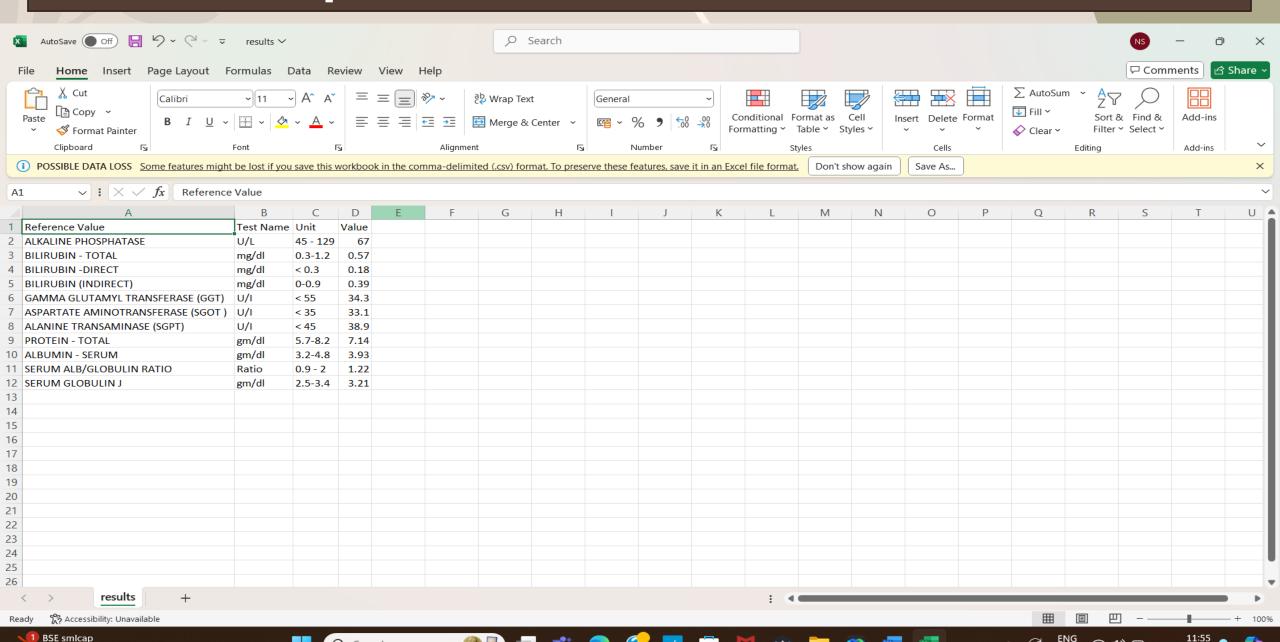
-2.04%

# results folder contains results.csv file which is the output



-2.04%

### The output results.csv file which shows all the text



-2.41%

- Created detailed documentation of the entire process, including model training, inference, and post-processing steps.
- Stored documentation files in S3.
- Generated Final Reports
- Compiled a final report summarizing the project, including model performance, challenges, and next steps.
- Uploaded the report to S3.

thank you

NITIMA SAIGAL 9205262297 NITIMASAIGAL@GMAIL.COM