Task: Amazon Rekognition Custom Labels

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Project Overview

This project demonstrates the use of **Amazon Rekognition Custom Labels** to train and evaluate a custom image recognition model.
It involves creating a project, preparing datasets, training the model, and evaluating its performance.

Architecture

The system uses **AWS Rekognition Custom Labels** to:

1. Create a project for object detection.
2. Prepare training and testing datasets.
3. Train a custom image recognition model.
4. Evaluate performance and analyze metrics.

Datasets

- **Training Dataset**: Labeled images used to train the custom model.
- **Testing Dataset**: Labeled images used to validate model accuracy.

Process

1. **Project Creation**
    - Created a new project in **AWS Rekognition Custom Labels Console**.
2. **Dataset Upload**

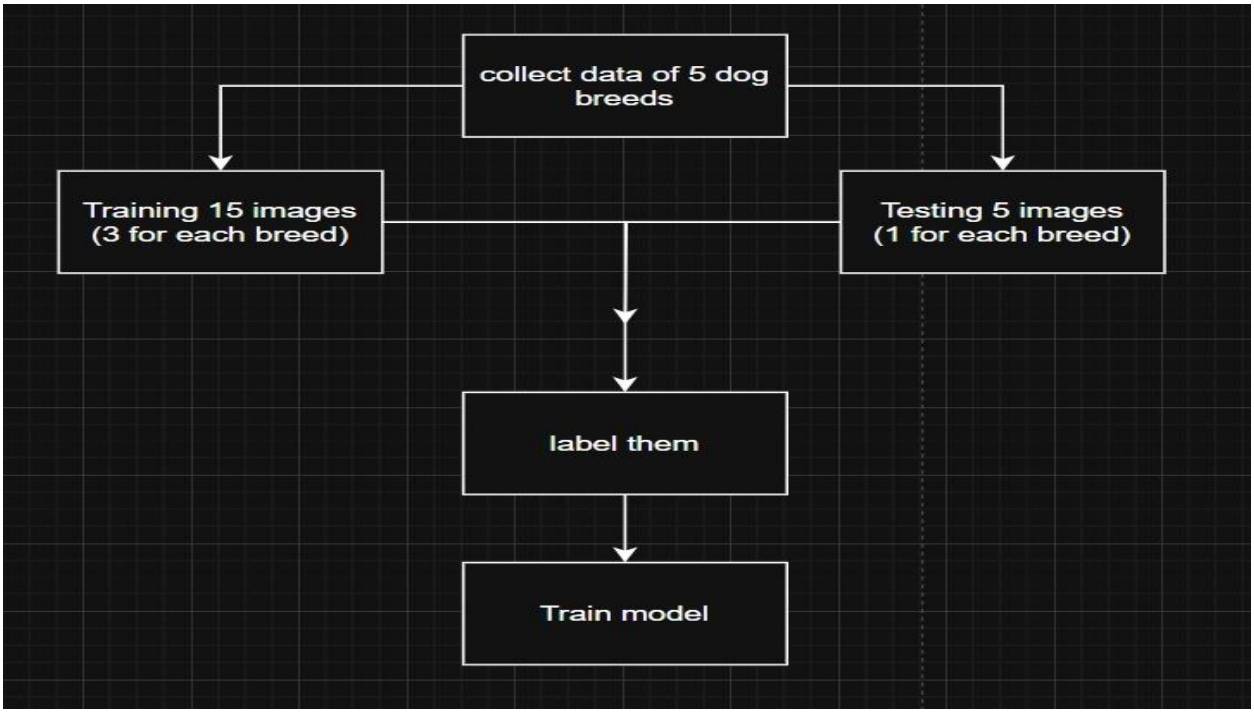
- Uploaded labeled datasets to S3 and linked them to the project.

3. **Model Training**
    - Initiated training using the training dataset.
4. **Model Evaluation**
    - Tested using the testing dataset.
    - Collected **evaluation metrics** (Precision, Recall, F1-score).

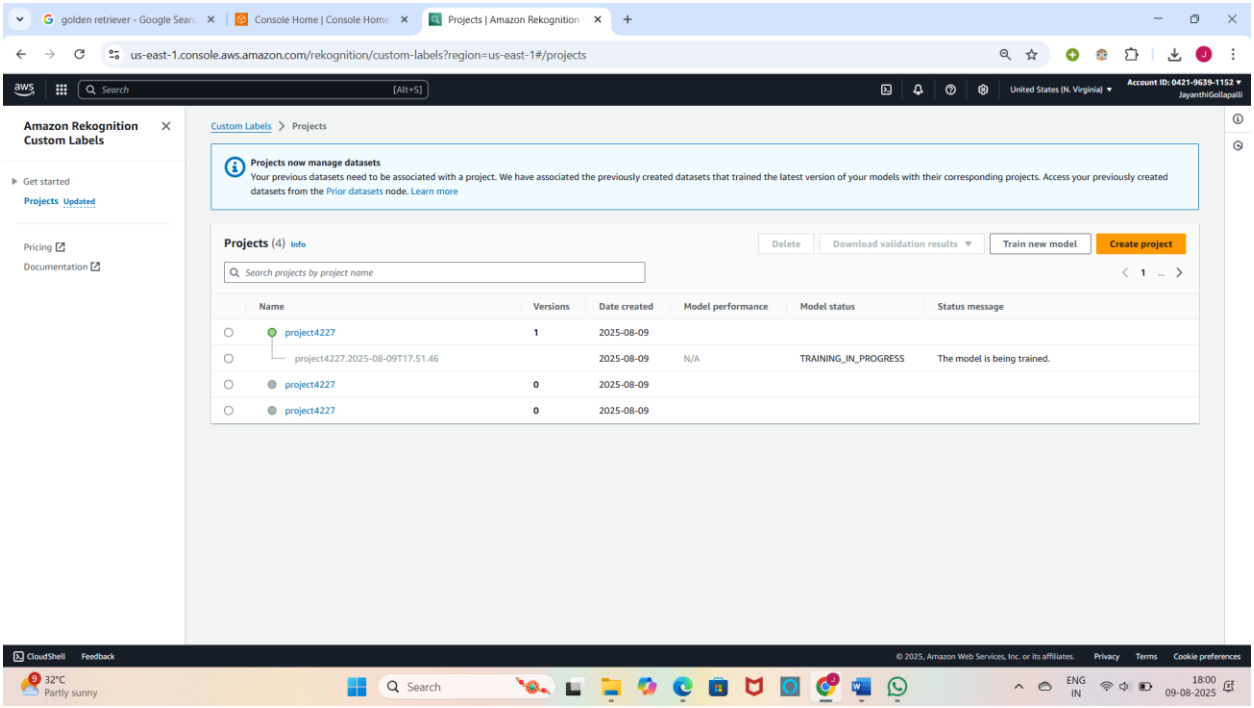
Results & Metrics

- Model successfully trained and evaluated.
- Performance metrics indicate the model's effectiveness for the chosen dataset.

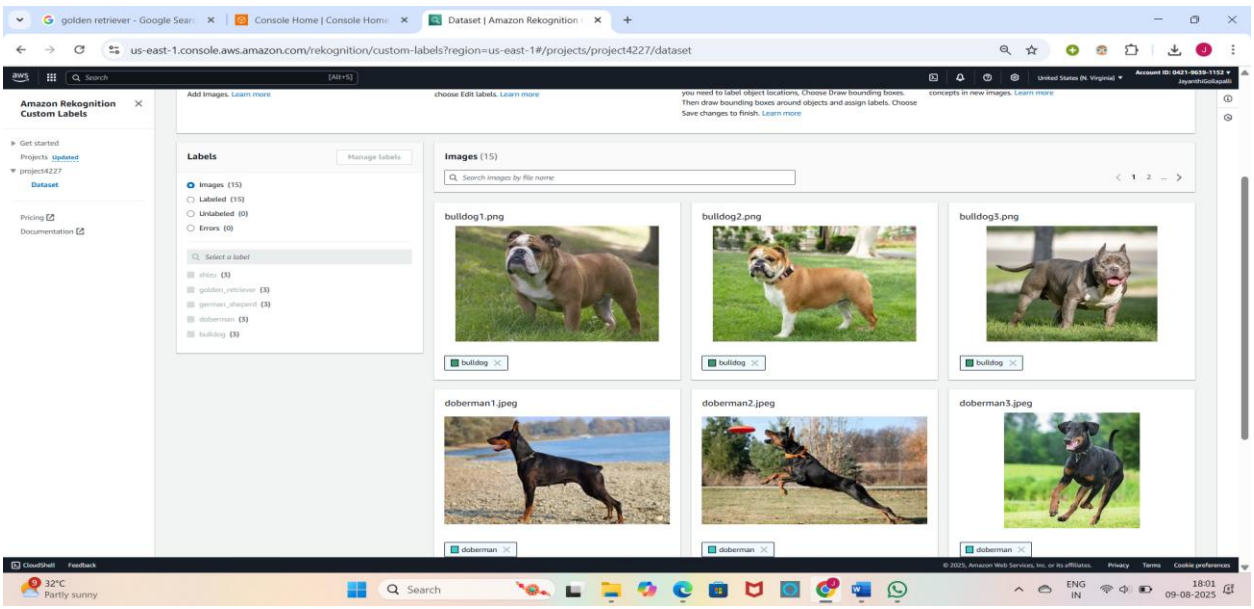
Architecture:



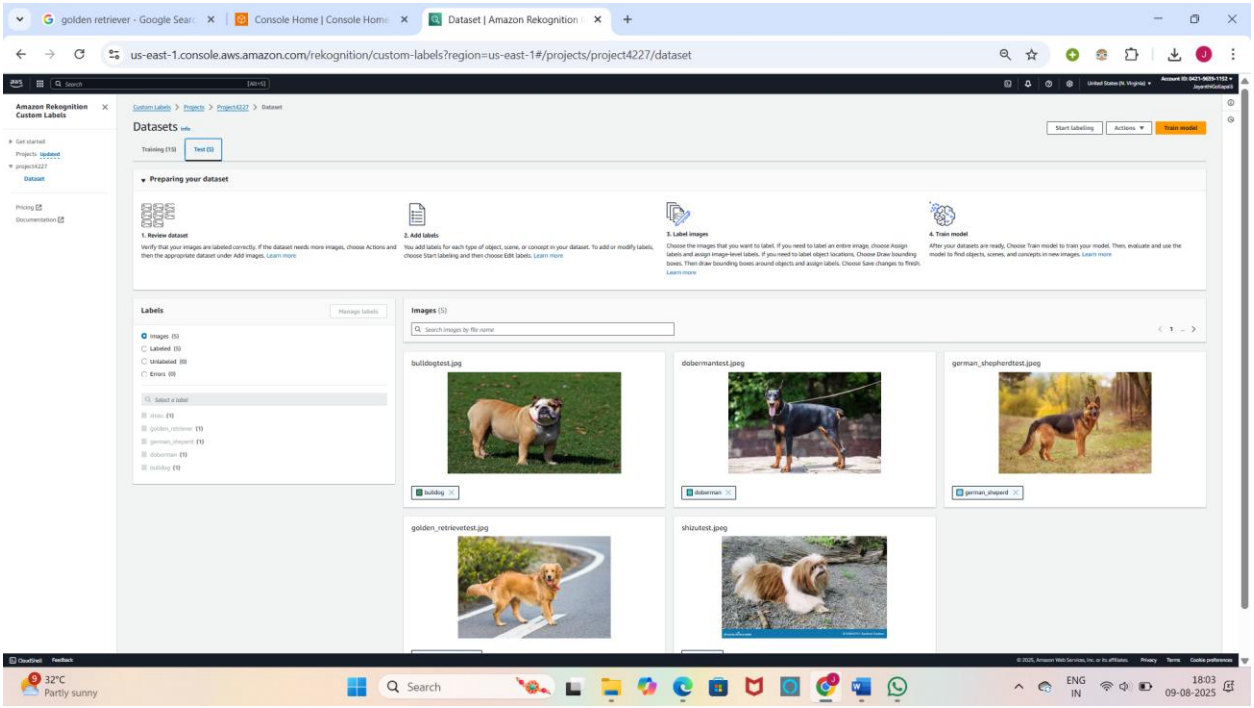
Project Created:



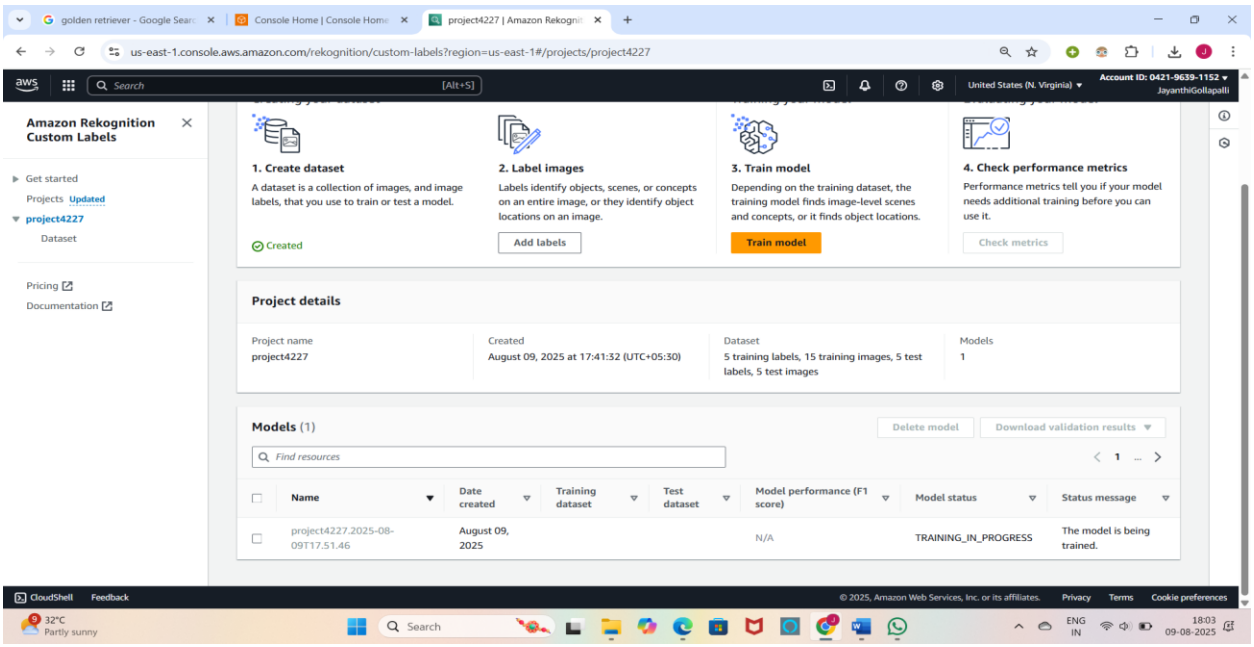
Training dataset:



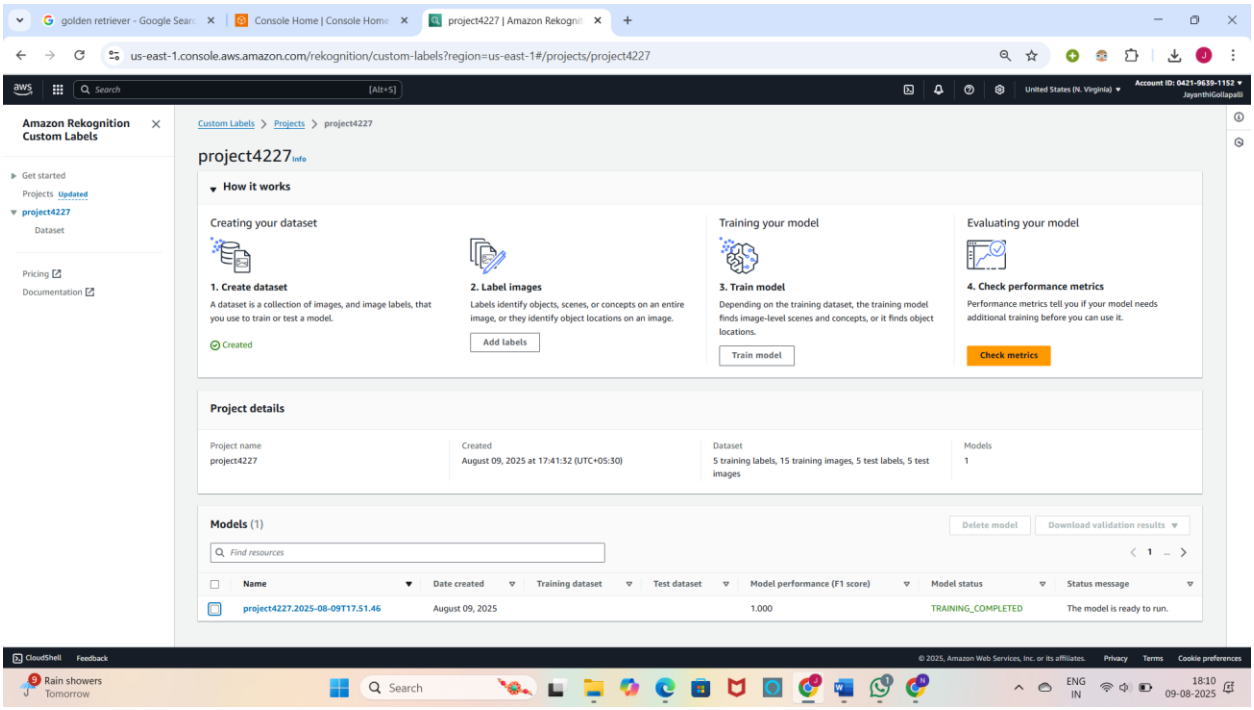
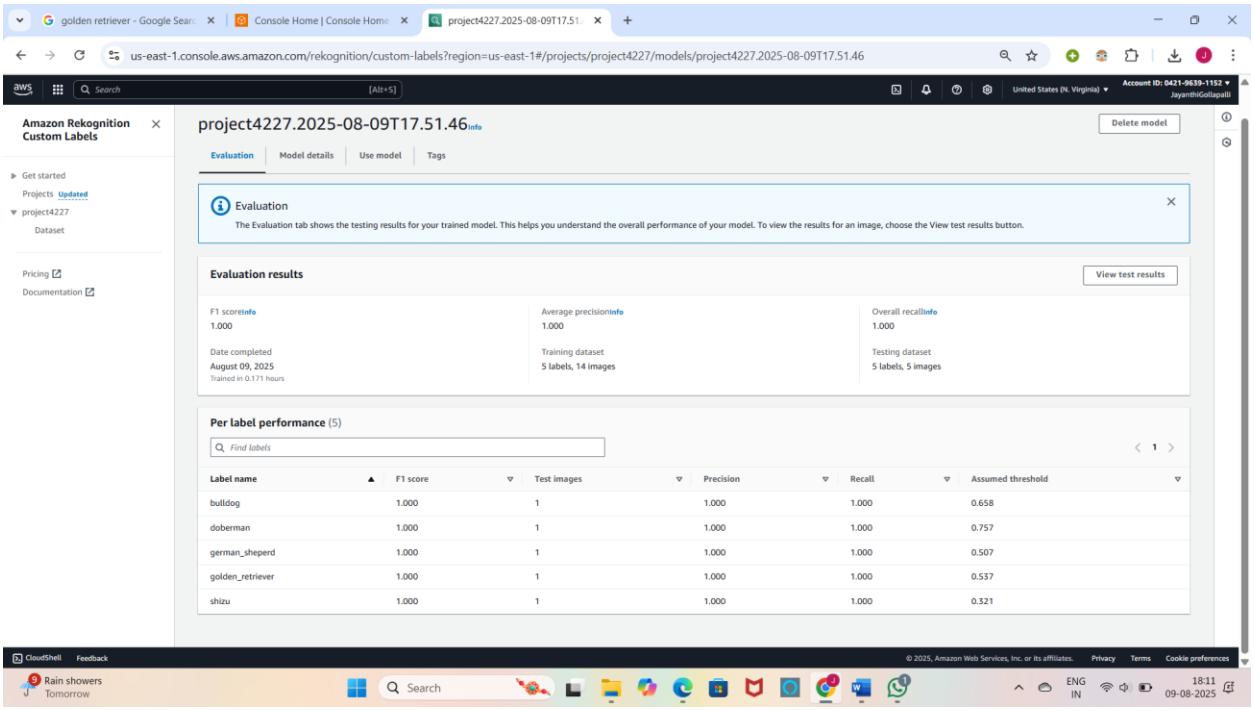
Testing Dataset:



Model Training:



Model Trained:



Model Evaluation And Metrics: