# ITCS-6190 Cloud Computing for Data Analytics LLM - Detect Al Generated Text

#### **Team Members**

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**Dataset: LLM - Detect Al Generated Text** 

#### **AWS Services Used**

AWS S3
AWS Athena
AWS Glue
AWS Quicksight
AWS Sagemaker

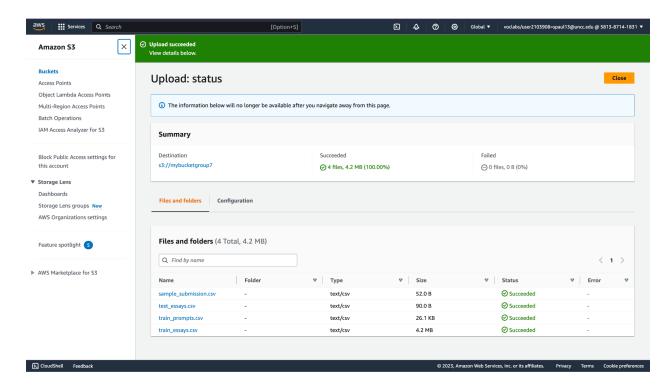
#### About the data

The LLM (Large Language Model) Detect AI Generated Text dataset is likely designed for training models to identify and differentiate between human-generated and AI-generated text. It encompasses a diverse collection of text samples, featuring instances of both human and machine-generated content. This dataset aims to enhance the capabilities of language models in discerning the unique patterns and characteristics associated with AI-generated text, aiding in the development of effective detection algorithms. Researchers and developers use such datasets to advance the field of natural language processing by creating models that can reliably identify content produced by sophisticated language models like GPT (Generative Pre-trained Transformer).

There are 4 CSV files in the dataset with respective columns

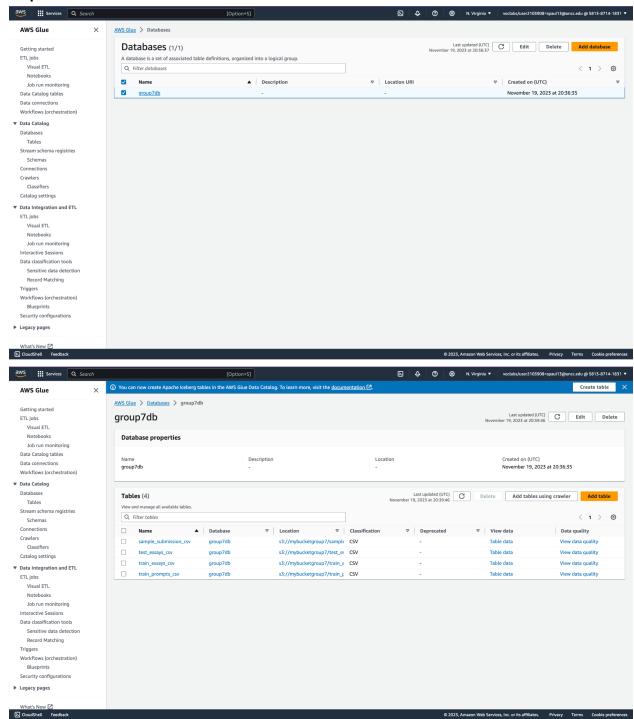
- 1. Train\_Essays.csv: Id, prompt id, text, generated
- 2. Train\_Prompts.csv: prompt\_id, prompt\_name, instructions, source\_text
- 3. Test\_essays.csv : id, prompt\_id, text
- 4. Sample\_submission.csv:id, generated

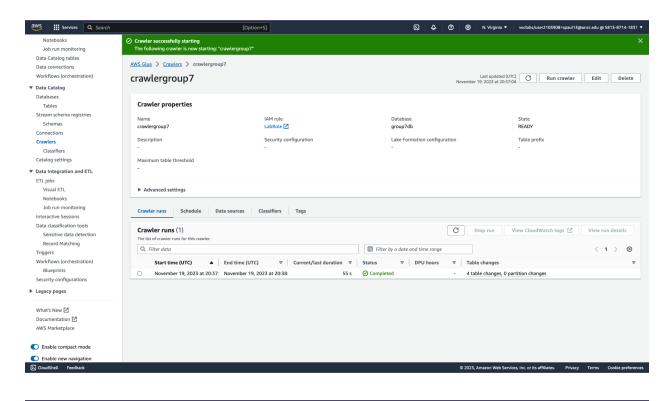
# Creation of Bucket and storing the dataset into the bucket

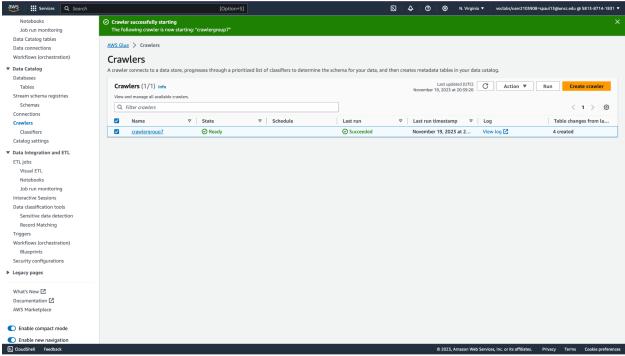


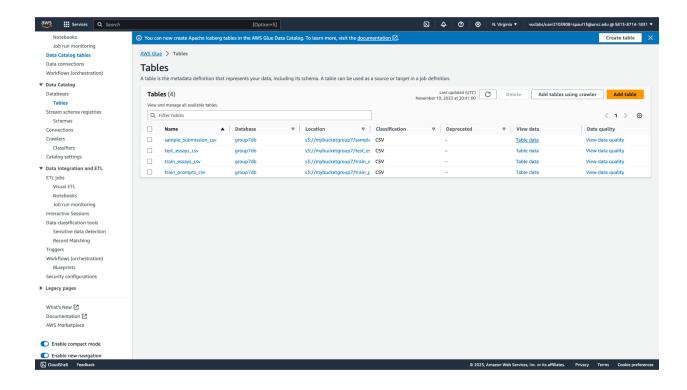
# **Data Preparation using AWS Glue**

Step 1: AWS Glue is used to fetch the data from S3 to AWS Glue



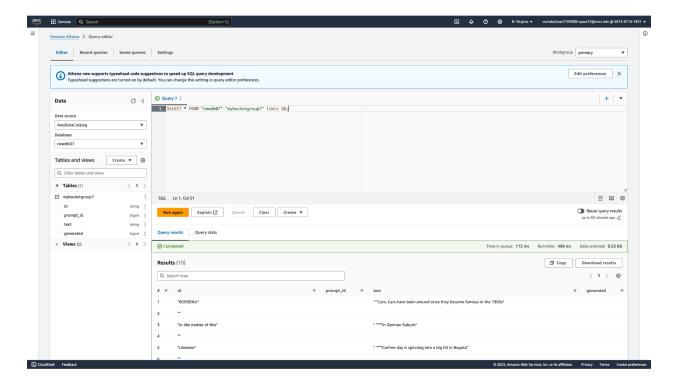






#### Step 2: Preview the data on AWS Athena

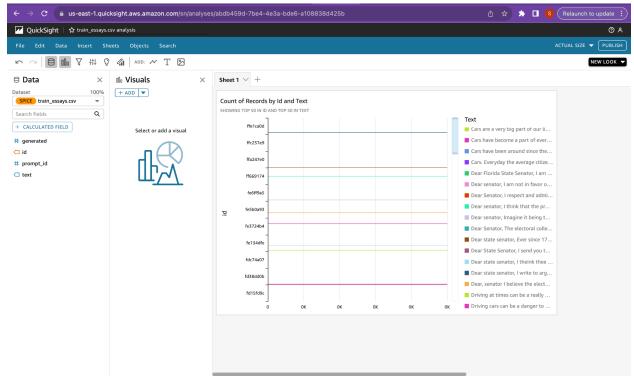
Run a few SQL queries on AWS Athena to understand the datasets.



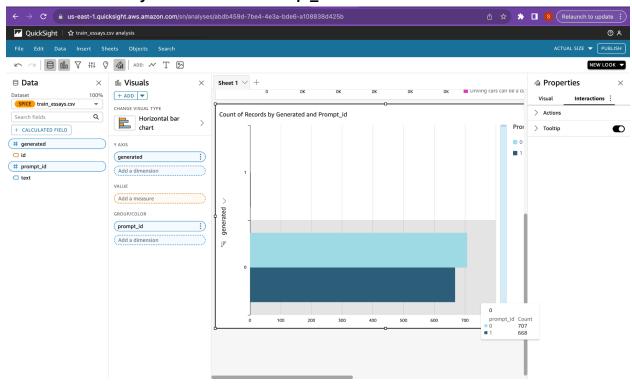
## **Data Visualization on Quick Sight**

The dataset has been visualized on AWS Quick Sight to get a better understanding of the data

## **Count of Records by IDs and Text**



### Count of Records by Generated and Prompt\_lds



# Count of Records by Generated Text, and Prompt\_Ids

