

# Content Generation and Summarization with Generative Al

## Agenda

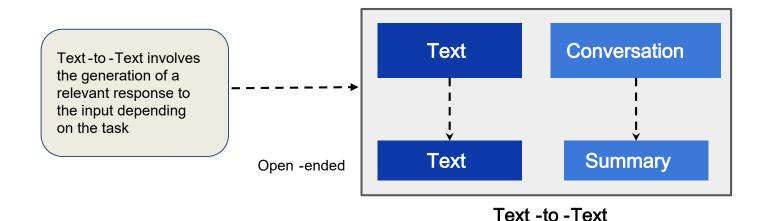


#### In this session, we will:

- Overview of Text-to-Text Generation
- Structure of Text Generation Tasks (Sum marization) in Generative AI
- Data Preparation with respect to Text Generation Task
- Prompt Structure with respect to Text Generation Task
- Evaluation with respect to Bert and Rouge Score in Text Generation Task

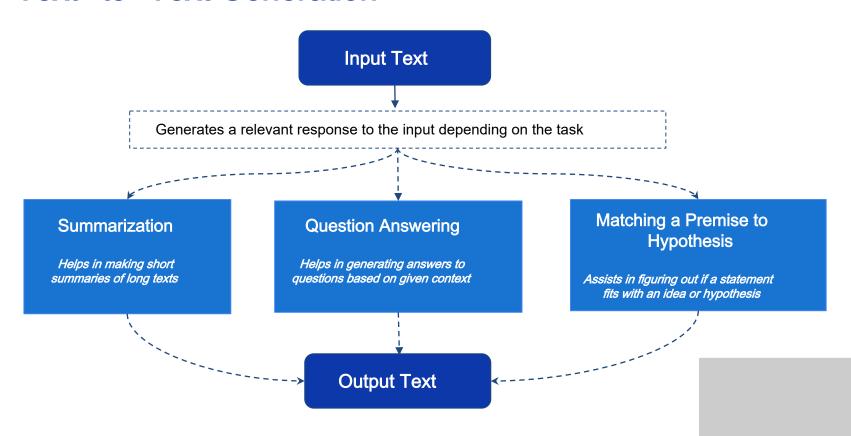
#### **Text -to -Text Generation**







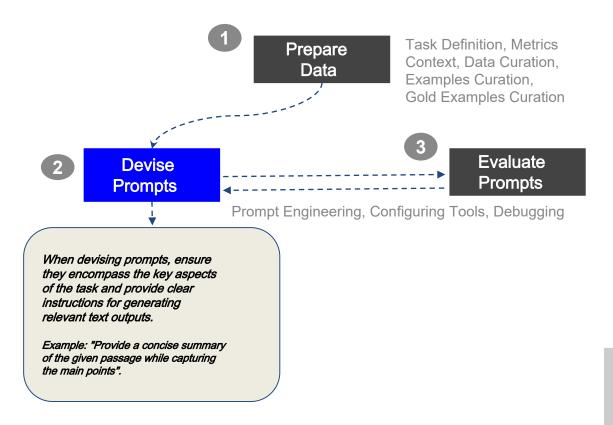
#### **Text -to -Text Generation**



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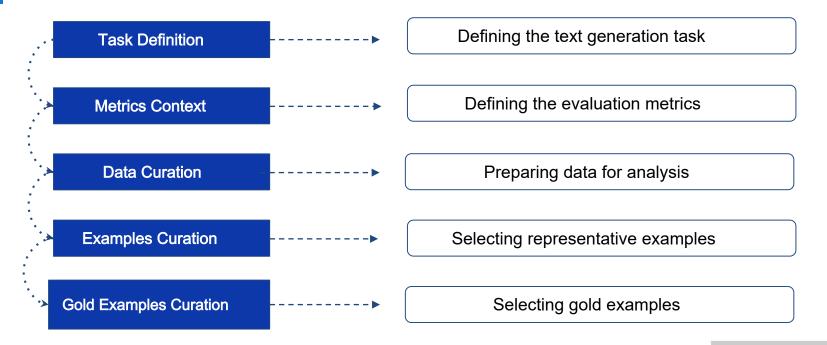
#### Structure of Text Generation Tasks



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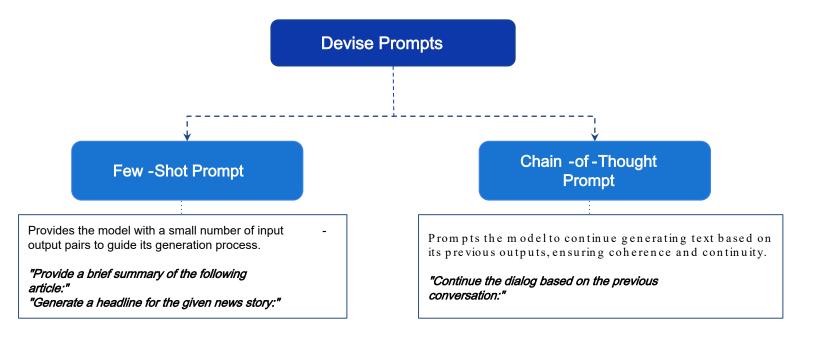


### Preparing Data in Text Generation Task



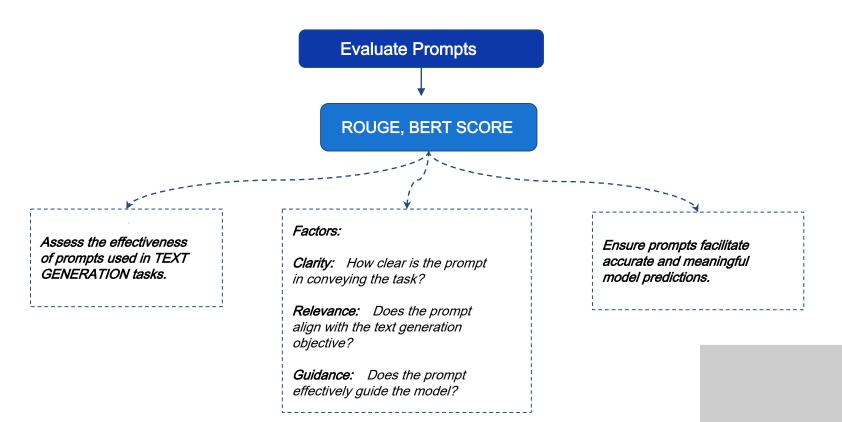


#### **Devise Prompts in Text Generation Task**





### **Evaluate Prompts in Text Generation Task**





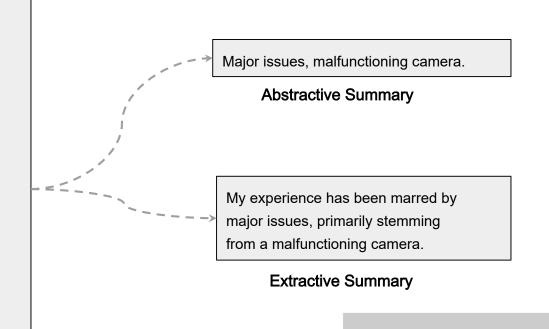
# Step 1: Defining Objectives & Metrics in Summarization



### **Defining Objectives in Summarization**

I recently purchased a new camera and unfortunately, my experience has been marred by major issues, primarily stemming from a malfunctioning camera. This purchase has been nothing short of disappointing.

From the moment I started using the camera, I noticed severe problems with its functionality. The most significant problem is the camera's malfunctioning lens. It frequently gets stuck, making it almost impossible to capture the shots I intended to. This has not only ruined many photo opportunities but also been incredibly frustrating.



Review
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#### Defining Metrics: ROUGE: n

#### -grams

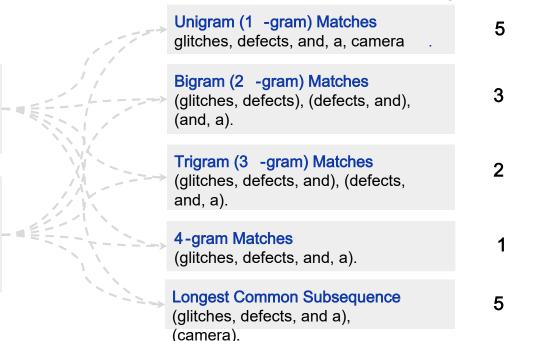
Length of Matches

#### **AI-Generated Summary**

Colossal disappointment with constant glitches, defects, and a malfunctioning camera.

#### **Human -Generated Summary**

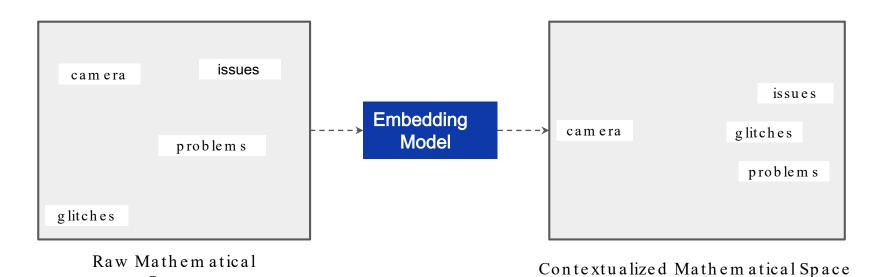
Incredibly let down by the never -ending issues – glitches, defects, and a camera that just won't cooperate.





## **Embeddings (Used in Bert Score)**

Space



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0.8

0.6

- 0.4

- 0.2

-0.784

-1.245

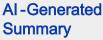
-0.487

-1.294

-0.955

-0.813

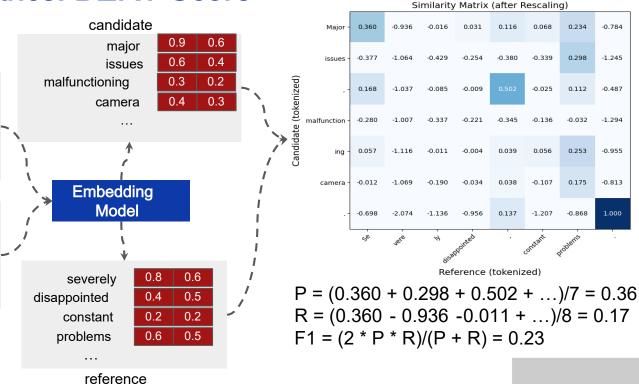
#### **Defining Metrics: BERT Score**



Major issues, malfunctioning camera

#### **Human** -Generated Summary

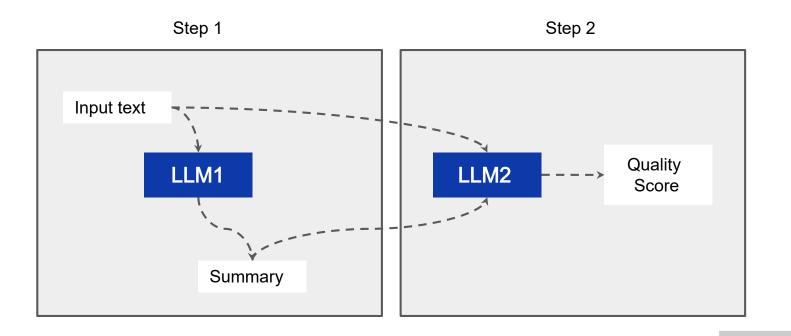
Severely disappointed, constant problems



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## **Defining Metrics: LLM Rating**

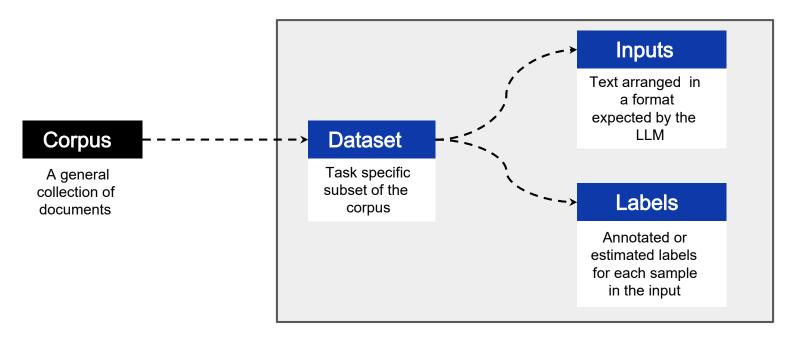




## Step 2 : Assemble Data

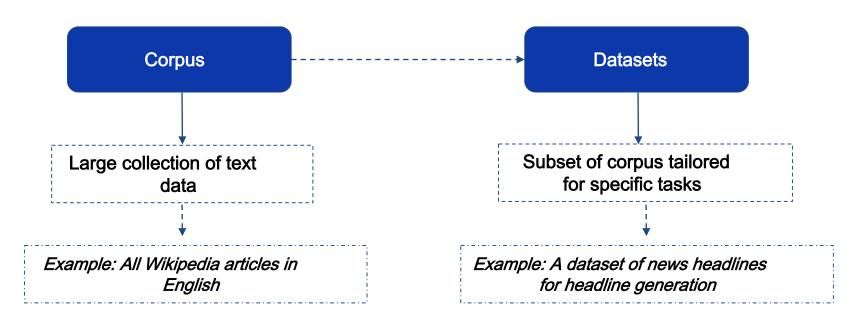


#### **Data Preparation Process**



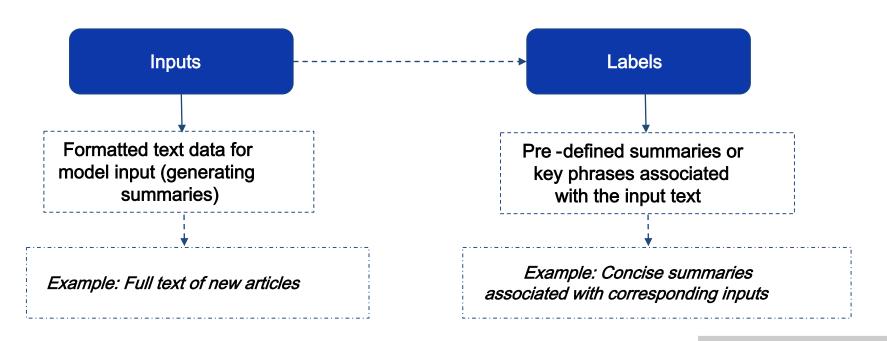


#### What are Corpus and Datasets?



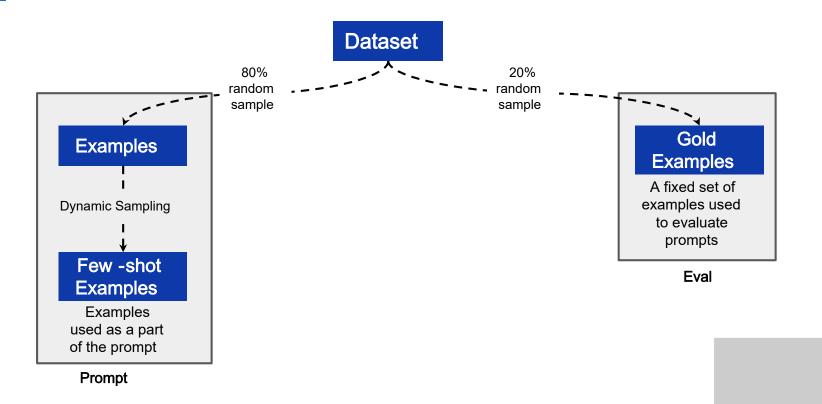


### What are Inputs and Labels?





### Assembling Data in Text Generation Task



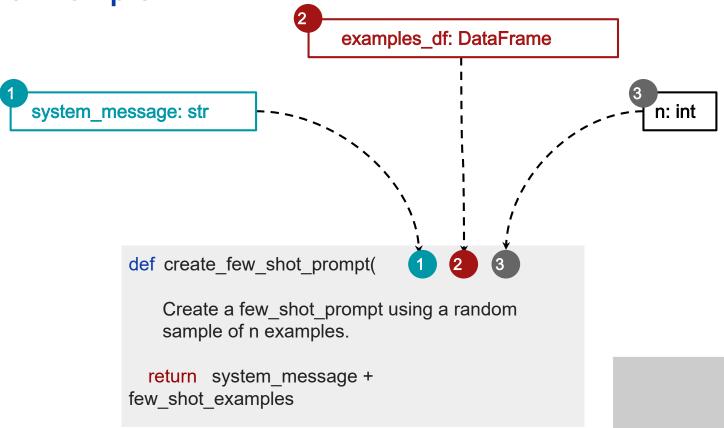
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# **Step 3: Derive Prompts**



#### **Derive Prompts**



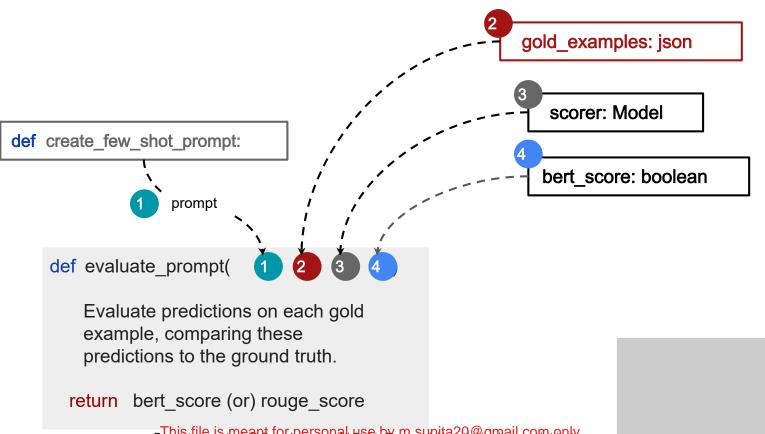
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# **Step 4: Evaluation of Prompts**



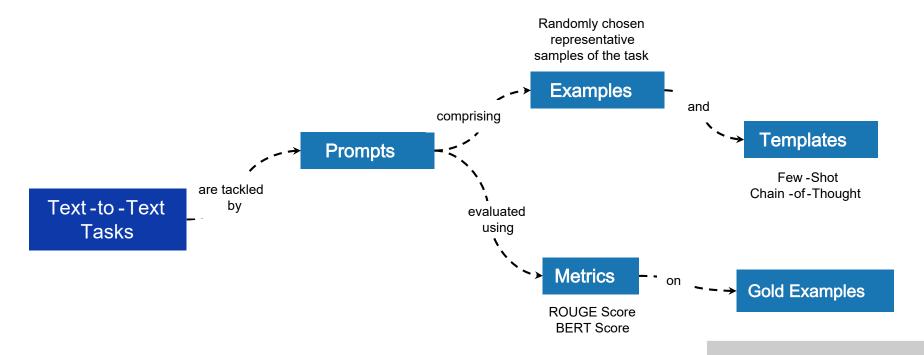
## **Understanding the Evaluation Process**



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## Summary of Text -to -Text Tasks



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