

Original MMKG Dataset

Entity Name:

Amsterdam

Entity ID:

Q727

Original Images:



Entity Description:

Amsterdam is the capital and most populated city of the Netherlands...

MMKG Completion Model



Summary Paragraph:

three red crosses...
symbol of Amsterdam.

Modality Extension Module

Entity Name: Amsterdam

Entity ID: Q727

Search Web for Entity Images

New Download Image:



Semantic Generation Module

Original Image Description:

the scene is of a canal with buildings on both sides.

+ Merged Descriptions

New Image Description:

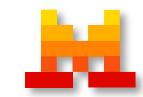
three red Saint Andrew's crosses on a white banner,
symbol of Amsterdam.

LLM-based Semantic Fusion Module

Prompt:

Your task is to integrate the following list of visual descriptions into a rich, detailed, and coherent summary paragraph.

LLMs:



Mistral-7b

 **LLaMA**
LLaMA-3.1-8b

 Flan-T5-base