

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

Human-in-the-Loop Consistency Check



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