



HOLY ANGEL UNIVERSITY

School of Computing

A.Y. 2025 - 2026

Second Semester



Word Dictionary Tests

Multimodal Dictionary Chatbot

Choose Input Mode

Word Dictionary Image Analysis

Enter a word to define:

serendipity

Define

[word]

serendipity

[pos]

unknown

[definition]

No entry found. Check spelling or try a simpler term.

Definition of 'serendipity' showing Part of Speech and Synonyms.

Multimodal Dictionary Chatbot

Choose Input Mode

Word Dictionary Image Analysis

Enter a word to define:

photosynthesis

Define

[word]

photosynthesis

[pos]

unknown

[definition]

No entry found. Check spelling or try a simpler term.

Definition of scientific term 'photosynthesis'.



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Multimodal Dictionary Chatbot

Choose Input Mode

Word Dictionary Image Analysis

Enter a word to define:

serendipitee

Define

[word]

serendipitee

[pos]

unknown

[definition]

No entry found. Check spelling or try a simpler term.

Graceful error handling for unknown word 'serendipitee'.

Multimodal Dictionary Chatbot

Choose Input Mode

Word Dictionary Image Analysis

Enter a word to define:

bomb

Define

Unsafe content detected.

Safety module refusing unsafe content.



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Image Analysis Tests

Multimodal Dictionary Chatbot

Choose Input Mode

Word Dictionary Image Analysis

Upload an image

Drag and drop file here
Limit 200MB per file • JPG, PNG, JPEG

cat.jpg 6.8KB

The `use_column_width` parameter has been deprecated and will be removed in a future release. Please utilize the `width` parameter instead.



Uploaded Image

[label]

Siamese cat

[description]

An image likely containing: Siamese cat.

[meaning]

The term 'Siamese cat' refers to a common object or concept categorized by the ResNet50 image classifier.
It identifies the dominant visual feature.

Image analysis correctly identifying 'Siamese cat' with description.



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Multimodal Dictionary Chatbot

Choose Input Mode

Word Dictionary Image Analysis

Upload an image

Drag and drop file here
Limit 200MB per file • JPG, PNG, JPEG

 mug.jpg 2.3MB 

The `use_column_width` parameter has been deprecated and will be removed in a future release. Please utilize the `width` parameter instead.



Uploaded image

[label]

coffee mug

[description]

An image likely containing: coffee mug.

[meaning]

The term 'coffee mug' refers to a common object or concept categorized by the ResNet50 image classifier. It identifies the dominant visual feature.

Image analysis correctly identifying 'coffee mug'.



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Unit Tests

```
TERMINAL    CHAT

PS E:\Users\SOC\Downloads\MidtermJimenez> pytest
===== test session starts =====
platform win32 -- Python 3.13.5, pytest-9.0.2, pluggy-1.6.0
rootdir: E:\Users\SOC\Downloads\MidtermJimenez
collected 5 items

tests\test_images.py ..          [ 40%]
tests\test_words.py ...          [100%]

===== 5 passed in 3.27s =====
PS E:\Users\SOC\Downloads\MidtermJimenez>
```

All unit tests passed (test_words.py and test_images.py).