GraphJudge - Intelligent Knowledge Graph **Construction System**

GraphJudge is an intelligent knowledge graph construction system based on large language models. Through a three-stage processing pipeline, it extracts entities from Chinese text, generates knowledge triples, and uses AI for quality assessment.

Encoding Used

utf-8

Paragraph Count

View Detailed Results

o Average Confidence

Al Confidence

0.779

Browse files

Chinese Chars

6,770

Est. Reading Time

27.1 min

Historical Comparison

Total Processing Time

Quality Grade

Tood

Generate Report

Text Reduction

85.1%

↑ Denoising Effect

^

1242.6s

X

Getting Started: Upload a Chinese text file (.txt) or paste text directly to begin analysis.

File Size

Total Runs Average Processing Time Total Generated Triples Recent Approval Rate 1242.6s 78.7% 47

Input Text

Please upload a Chinese text file (.txt) or enter text directly:

File uploaded successfully! (Encoding: utf-8)

Upload File Type Text

Drag and drop file here **(** Limit 200MB per file • TXT

chapter1_raw.txt 23.4KB

chapter1_raw.txt 23,996 bytes

File Name

File Content Preview

Text Statistics

Character Count Line Count 8120 90

Approved Triples 37

Start Processing

↑ 78.7% approval rate Final Knowledge Graph

After AI judgment, the following 37 knowledge triples were deemed accurate: **Knowledge Triple Details**

10 ↑ 21.3% rejection rate

Knowledge Triple

Final Results

X Rejected Triples

【女媧氏】→地點→【大荒山】

【女媧氏】→地點→【無稽崖】 Tood 【石頭】→地點→【青埂峰】 To Good 【石頭】→化為→【通靈寶玉】 Tood 【女媧氏】→遺留→【石頭】 0.800 Tood 【三生石】→地點→【西方靈河】 Tood 0.800 【絳珠草】→地點→【三生石】 Tood 【神瑛侍者】→灌溉→【絳珠草】 Tood 0.800 【神瑛侍者】→地點→【赤瑕宮】 **o** Good 【絳珠草】→化為→【絳珠仙子】 0.800 To Good Relationship Network Graph

Text-based relationship display:

1. 女媧氏→地點→大荒山 2. 女媧氏→地點→無稽崖

Network graph requires Plotly library: pip install plotly

3. 石頭→地點→青埂峰

4. 石頭→化為→通靈寶玉

5. 女媧氏→遺留→石頭 6. 三生石→地點→西方靈河

7. 絳珠草→地點→三生石 8. 神瑛侍者→灌溉→絳珠草

9. 神瑛侍者→地點→赤瑕宮

11.三生石→因緣→絳珠草

10. 絳珠草→化為→絳珠仙子

12. 通靈寶玉→因緣→神瑛侍者 13. 通靈寶玉→因緣→絳珠仙子

14. 通靈寶玉→因緣→警幻仙子 15. 情僧→地點→青埂峰

Export Options Export as JSON

Entity Extraction Results Status

Success

View Detailed Results by Stage

Detailed Processing Phases

for Chinese literature.

↑ Processing Complete

Phase 1: Entity Extraction with GPT-5-mini Advanced Language Understanding: GPT-5-mini analyzes classical Chinese text using contextual understanding and entity recognition patterns optimized

Extracted Entities with Smart Categorization

Export as CSV

Processing Time

76.77s

↑ GPT-5-mini API

血 地點 (Locations)

Denoised & Structured Text

Processed length: 1,209 characters

Quality & Content Metrics

"unique_entities": 38

"total_entities": 38

"deduplication_rate": "0.0%"

"text_structure_improved": "Yes"

"classical_chinese_optimized": "Yes"

Status

>

三、石書入世、編述與名號流變

通靈寶玉之所歷,刻於石上;後有空空道人(後更號情僧)於青埂峰下

《情僧錄》。吳玉峰署題為《紅樓夢》,東魯孔梅溪題《風月寶鑒》。

得見石文,遂錄為《石頭記》。空空道人以情入色、見色生情,改題

Processing Quality

↑ Optimized for KG

High

Processed Output

後曹雪芹...

Entities Found

↑ 38 items

38

🡤 人物 (Characters) 女媧氏

通靈寶玉 ... and 24 more 概念

無 概念 (Concepts)

Phase 2: Text Denoising and Restructuring GPT-5-mini Text Optimization: Intelligently restructures and cleans the text based on extracted entities, removing redundant descriptions while preserving

Original Input Text

Total length: 8,120 characters

Raw Input

紅樓夢 第一回 甄士隱夢幻識通靈 賈雨村風塵懷閨秀

essential factual content for accurate knowledge graph generation.

Denoising Statistics **Compression Ratio Entity Density**

0.15 2.375 ↑ entities per word ↑ 85.1% reduction Detailed Processing Metrics API Performance Analysis

作者自云:因曾歷過一番夢幻之後,故將真事隱去,而借通靈之說,撰

此《石碩記》一書也。故曰「甄十隱夢幻識涌靈」。但書中所記何事,

"entities_extracted": 38 "success_rate": "100%" "api_calls": "2 (extraction + denoising)" "language_support": "Advanced Chinese"

"processing_time_ms": "76774.4"

"model": "GPT-5-mini"

Processing Timeline

Phase

Input Validation **Entity Extraction Text Denoising Quality Validation**

Knowledge Triple Generation Results **Processing Time** Status

Success

↑ Generation Complete

Traceback:

Application error occurred **StreamlitAPIException**: Expanders may not be nested inside other expanders.

self._render_main_interface()

raise StreamlitAPIException(

Duration

0.1s

38.4s

38.4s

0.1s

Triple Count

47

↑ Knowledge Relations

File "D:\AboutCoding\AI_Research\GraphJudge_TextToKG_CLI\streamlit_pipeline\app.py", line 171, in run

Avg Confidence

↑ Quality Score

N/A

File "D:\AboutCoding\AI_Research\GraphJudge_TextToKG_CLI\streamlit_pipeline\app.py", line 349, in _render_main_interface

Unique Entities

↑ Graph Nodes

38

File "D:\AboutCoding\AI_Research\GraphJudge_TextToKG_CLI\streamlit_pipeline\app.py", line 551, in _render_results_section display_triple_results(result.triple_result)

return self.dg._block(block_proto=block_proto)

^^^^^

self._render_results_section(st.session_state.current_result)

536.85s

↑ GPT-5-mini API

File "D:\AboutCoding\AI_Research\GraphJudge_TextToKG_CLI\streamlit_pipeline\ui\components.py", line 398, in display_triple_result with st.expander("▲ Detailed Triple Generation Phases", expanded=True):

^^^^^^

File "C:\Users\USER\AppData\Local\Programs\Python\Python312\Lib\site-packages\streamlit\runtime\metrics_util.py", line 410, in w result = non_optional_func(*args, **kwargs) ^^^^^ File "C:\Users\USER\AppData\Local\Programs\Python\Python312\Lib\site-packages\streamlit\elements\layouts.py", line 601, in expand

File "C:\Users\USER\AppData\Local\Programs\Python\Python312\Lib\site-packages\streamlit\delta_generator.py", line 518, in _block _check_nested_element_violation(self, block_type, ancestor_block_types)

File "C:\Users\USER\AppData\Local\Programs\Python\Python312\Lib\site-packages\streamlit\delta_generator.py", line 598, in _check

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