

RAG Testing with Gemma 7B Instruction Tuned

Indexing: **llama-index**, Embedding Generation: **FastEmbed**, Embedding Model: **BAAI/bge-small-en-v1.5**

Requires: `transformers=4.38.1`, `llama-index=0.10.12`, `device_map=CUDA (A100)`

Data Document: **Hubble Focus: Strange New Worlds**

https://www.nasa.gov/wp-content/uploads/2022/06/hubble_focus_exoplanets_june2022.pdf?emrc=9057ef

who operates the hubble mission?

The Hubble Space Telescope Operations Project at the NASA Goddard Space Flight Center (GSFC) manages the mission. The Space Telescope Science Institute (STScI), operated by the Association of Universities for Research in Astronomy (AURA), conducts Hubble's science operations. Lockheed Martin conducts Hubble's mission operations.

(Response Time: 4.38 seconds)

what technology will james webb telescope use and what would be the benefits?

The text does not describe the technology or benefits of the James Webb Space Telescope, therefore I cannot answer this query.

(Response Time: 1.12 seconds)

what is wasp 107b orbital time?

The text does not provide information about wasp 107b orbital time, therefore I cannot answer this query.

(Response Time: 1.05 seconds)

whats does Evgenya Shkolnik have to say about low mass stars?

Evgenya Shkolnik has stated that low-mass stars, commonly known as M dwarfs, often produce violent superflares when they are young.

(Response Time: 1.35 seconds)

what does Edward Guinan say about kepler 442 system?

The text does not contain any information about Edward Guinan or his opinions about the Kepler 442 system, therefore I cannot answer this query.

(Response Time: 1.31 seconds)

what was the confusion around Fomalhaut b and what did was the researchers opinion?

The confusion around Fomalhaut b was that it appeared to be a planet, yet lacked detectable infrared heat signatures and exhibited a strange orbit. The researchers' opinion was that the object was actually a billowing cloud of dust, which explained its puzzling behavior.

(Response Time: 2.13 seconds)

Is the james webb telescope operational? if so, when did it go live?

The text does not mention the James Webb telescope or its operational status, therefore I cannot answer this query.

(Response Time: 0.94 seconds)