

Sealed Experiment Record

Sealed 2026-10-10 · Signed by the K-Veritas server
Session aa1b7131 · Data hash 6cdf...3eeb

Abstract

This record seals 1 run (kv_run.sh) executed on Intel(R) Xeon(R) W-2145 CPU @ 3.70GHz between 2026-10-10 21:31 and 21:34 UTC. Reported results: average_ndcg_at_10 49.903, fiqa_ndcg_at_10 39.117, nfcorpus_ndcg_at_10 36.799, scifact_ndcg_at_10 73.794. 1 invocation in total, 0 failed. Produced with K-Veritas [1].

What this record proves

These numbers came from the sealed code at this time, unchanged since. Whether the experiment is sound is for the reader to judge.

Verify: kveritas verify <this file> or kveritas.org/verify

1 Setup

Item	Value
Session	aa1b7131-406b-44f8-8583-f282a6a352d5
Initialized	2026-10-10T21:31:48Z
Machine	167ec0d6dc9a8170
Operating system	linux / amd64
CPU	Intel(R) Xeon(R) W-2145 CPU @ 3.70GHz, 16 cores
Memory	31.0 GB
GPU	NVIDIA GeForce RTX 5060 Ti, 16311 MiB
Environment, run 1	1a8f650caa25488359e3d74daabc2e5d15f0cbd3e0e10de4b5f11c6fea46fd9c
Disclosure	open
Source code, run 1	832bcbe51584c95a36d95426b94f56d99f484c6015e3abbac56b8a2999f956cd

2 Runs

#	Command	Duration	Exit	Anchored
1	bash kv_run.sh	2 minutes 17 seconds	0	at run end

1 invocation in total: 1 kept in this record, 0 failed, 0 interrupted. Every invocation is recorded by the server, including the ones not kept.

3 Results

Run 1: kv_run.sh

Metric	Final value	Step	Source
average_ndcg_at_10	49.903		explicit
fiqa_ndcg_at_10	39.117		explicit
nfcorpus_ndcg_at_10	36.799		explicit

Metric	Final value	Step	Source
scifact_ndcg_at_10	73.794		explicit
average_recall_at_100	67.768		explicit
fiqa_recall_at_100	73.119		explicit
nfcopus_recall_at_100	33.184		explicit
scifact_recall_at_100	97		explicit

Inline claim	Value	Phase	Output line
average_ndcg_at_10	49.903		20
fiqa_ndcg_at_10	39.117		22
nfcopus_ndcg_at_10	36.799		24
scifact_ndcg_at_10	73.794		26
average_recall_at_100	67.768		28
fiqa_recall_at_100	73.119		30
nfcopus_recall_at_100	33.184		32
scifact_recall_at_100	97		34

4 Execution evidence

Coherence

Coherent (0.54): the telemetry channels move together, as one process.

Telemetry

Run	Samples	CPU time	Peak memory	Peak GPU
1	1358	182.8 s	3.26 GB	100%

5 Provenance

Run 1: kv_run.sh

Disclosure open. 758 tracked files, 3 snapshots. Every snapshot is bound into the signature.

#	Snapshot	Time	Root	Changed
0	run_start	21:31:49	a3eae572ae57e1a	758
2	run_end	21:34:05	a3eae572ae57e1a	0

1 snapshot with no file change omitted here; full timeline in Appendix B.

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research/llm_embedder/evaluation/icl_utils.py	<1MB	f72dc59ae79bae8937dd9c35
research/llm_embedder/run_dense.py	<1MB	0170072b44440c12d44de8ee
research/llm_embedder/run_lm_score.py	<1MB	3338826eaf142edbec413f1c
research/llm_embedder/run_ranker.py	<1MB	05b8f595739e4f072c114cec
research/llm_embedder/scripts/llm-embedder.sh	<1MB	ac0a905855bbd61e8f8208d3
research/llm_embedder/scripts/ours2st.py	<1MB	8b88fffb9f7e3659cd2cfcfb2b
research/llm_embedder/src/__init__.py	<1KB	98f0c4048bae5cdab67a1e60
research/llm_embedder/src/lm/__init__.py	<1KB	df39aec2bc12a920eddc48ee
research/llm_embedder/src/lm/args.py	<1MB	1b88c5c0cfd9baaa867f93e0
research/llm_embedder/src/lm/modeling_lm.py	<1MB	d87609c4c644f596f40a69a5
research/llm_embedder/src/lm/modeling_srlm.py	<1MB	98257df2bd07f28821251295
research/llm_embedder/src/retrieval/__init__.py	<1KB	30ee71565777823be058ac05
research/llm_embedder/src/retrieval/args.py	<1MB	59da2dd3631db923fb2fcb5c
research/llm_embedder/src/retrieval/data.py	<1MB	56d9b921c761526d2153e927
research/llm_embedder/src/retrieval/evalnq.py	<1MB	7fd51b6cf1c9b056fd0a39ca
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research/llm_embedder/src/retrieval/modeling_dense...	<1MB	87fc51d2bbdbd3833bcbf094
research/llm_embedder/src/retrieval/modeling_ranke...	<1MB	51ae5997b04882490d5f2272
research/llm_embedder/src/retrieval/modeling_unifie...	<1MB	4beab3fb75176aa5477ad896
research/llm_embedder/src/retrieval/trainer.py	<1MB	bc8081f7bf125a6cf92dab05
research/llm_embedder/src/utis/__init__.py	<1KB	6d10e50f14a40eda1a3c337f
research/llm_embedder/src/utis/llama_patch.py	<1MB	2851273be7e710d200dd04ef
research/llm_embedder/src/utis/util.py	<1MB	cdba5ba7573e76ecf326e847
research/llm_reranker/__init__.py	<1KB	0236c34c58e4cea07f117f66
research/llm_reranker/evaluate.py	<1MB	56672d1d22aa4641683314fa
research/llm_reranker/finetune_for_instruction/__ini...	<1KB	5c3e8e8e79e38e1c30966d9b
research/llm_reranker/finetune_for_instruction/argu...	<1MB	521f4450ae1378bad4852a91
research/llm_reranker/finetune_for_instruction/data.py	<1MB	9a2109283fc928328df8b515
research/llm_reranker/finetune_for_instruction/load_...	<1MB	ebd60c514807b5fe6de3c2ec
research/llm_reranker/finetune_for_instruction/mode...	<1MB	753134d6c96799088c6991e0
research/llm_reranker/finetune_for_instruction/run.py	<1MB	3c447a66682a06ecf705affc
research/llm_reranker/finetune_for_instruction/traine...	<1MB	249fdbcc986bee15b7d58439
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research/llm_reranker/finetune_for_layerwise/argum...	<1MB	c84593515d07205f2f667e25
research/llm_reranker/finetune_for_layerwise/config...	<1MB	7111800469d9695862db4a35
research/llm_reranker/finetune_for_layerwise/data.py	<1MB	05d9425fee8393d7092eb614
research/llm_reranker/finetune_for_layerwise/load_...	<1MB	3c03f771614d10350b46aa6e
research/llm_reranker/finetune_for_layerwise/model...	<1MB	895b8557084418cceb9614a5
research/llm_reranker/finetune_for_layerwise/model...	<1MB	4051c74de030f4bc27e924ea
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research/llm_reranker/merge/__init__.py	<1KB	3c96d368e47f332fae53d002
research/llm_reranker/merge/configuration_minicpm...	<1MB	4ab51324036a4e9e4cf896bd
research/llm_reranker/merge/merge_base_model.py	<1MB	8870c38344c70419831361e0
research/llm_reranker/merge/merge_layerwise_mod...	<1MB	d208138cd5b450f198724cb2
research/llm_reranker/merge/merge_layerwise_mod...	<1MB	c5970dc44007cc53a229efdf
research/llm_reranker/merge/modeling_minicpm_rer...	<1MB	68306611b996a2ad9489c145
research/llm_reranker/stage1.json	<1MB	24dec1cc70b996b0816ca341
research/old-examples/finetune/ds_config.json	<1KB	5cab51d3e66b65131159b1ca
research/old-examples/finetune/toy_evaluation_data/...	<1KB	094934d755f86c7850f93876
research/old-examples/finetune/toy_evaluation_data/...	<1KB	aa80892ae5d94bd2ba63b8de
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research/old-examples/pretrain/retromae_pretrain/en...	<1MB	64f0e6d2ba5574c3893397a5
research/old-examples/pretrain/retromae_pretrain/m...	<1MB	0c2913b53a3bf025052f369a
research/old-examples/pretrain/retromae_pretrain/ru...	<1MB	03d04ddb3f82f213b960a099
research/old-examples/pretrain/retromae_pretrain/tra...	<1MB	e6f7bdc50227e32569d718ab
research/old-examples/pretrain/retromae_pretrain/uti...	<1MB	cca5da55f925c473940a7775
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research/old-examples/search_demo/__init__.py	<1KB	f36bec4ad5ced356444f94ff
research/old-examples/search_demo/arguments.py	<1KB	3b1dc5736c1be963c1223773
research/old-examples/search_demo/pre_process.py	<1MB	4f5177ac33ffe143f922fe2a
research/old-examples/search_demo/run.py	<1KB	d670d46a9849cf0db168de7e
research/old-examples/search_demo/tool.py	<1MB	0d6c8d412b8f6c9a8f887efc
research/old-examples/unified_finetune/unified_finet...	<1MB	94c7b2594122a765b5bd88a6
research/reranker/__init__.py	<1KB	6673d00bb52debb1d6a75238
research/reranker/arguments.py	<1MB	9fb4f461ddcee63fbd8f0d80
research/reranker/data.py	<1MB	0dd527aae5a7ad94fb09792e
research/reranker/modeling.py	<1MB	c4c4c76415de1e417ce3bfff5
research/reranker/run.py	<1MB	7350e80086f49491e6706443
research/reranker/trainer.py	<1MB	fc0e2673dc04b17978e74cbd
research/visual_bge/__init__.py	<1KB	7c8c67b70ae62451061188e8
research/visual_bge/setup.py	<1KB	d208c15e447a4f1c30a7a7fc
research/visual_bge/visual_bge/eva_clip/__init__.py	<1KB	203428eeaf43ec580ce5bf0e
research/visual_bge/visual_bge/eva_clip/constants.py	<1KB	807b7af458f0c155c18442c5
research/visual_bge/visual_bge/eva_clip/eva_vit_mo...	<1MB	0b9001d5da5f9d3cbde914f5
research/visual_bge/visual_bge/eva_clip/factory.py	<1MB	2032f8d0fc4bae8f86c9dfbf
research/visual_bge/visual_bge/eva_clip/hf_configs.py	<1MB	4f34d666bc8bcd4c62cf8c51
research/visual_bge/visual_bge/eva_clip/hf_model.py	<1MB	c53130ce4c111e28d9c8e264
research/visual_bge/visual_bge/eva_clip/loss.py	<1MB	7cad3e7027eeb7e812167976
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research/visual_bge/visual_bge/eva_clip/model_conf...	<1KB	61f5f232f38df309d6e9e1b1
research/visual_bge/visual_bge/eva_clip/model_conf...	<1KB	e766d10b5080f08d3ecd70ff
research/visual_bge/visual_bge/eva_clip/model_conf...	<1KB	36e63c73fffe65d3400cf9d2
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Withheld by .kveritasignore	Size	Hash
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research/visual_bge/visual_bge/eva_clip/openai.py	<1MB	cde3dcaa650493d5ed9fd782
research/visual_bge/visual_bge/eva_clip/pretrained.py	<1MB	e8dd8cdae07110ae992dcef4
research/visual_bge/visual_bge/eva_clip/rope.py	<1MB	6efc5e670f2bc3b5d6020e47
research/visual_bge/visual_bge/eva_clip/timm_mode...	<1MB	922f8b374f426f4462ecbb73
research/visual_bge/visual_bge/eva_clip/tokenizer.py	<1MB	2b2d85693b5e0abbb30b6cf7
research/visual_bge/visual_bge/eva_clip/transform.py	<1MB	57db487af1e644e7bcaf17a5
research/visual_bge/visual_bge/eva_clip/transformer...	<1MB	20946e72b6bee7dbc55a85f3
research/visual_bge/visual_bge/eva_clip/utils.py	<1MB	423b26457957387ccc06d189
research/visual_bge/visual_bge/modeling.py	<1MB	7e83bc273e11a897eb64361a

Activity: 759 files read, 0 files written, 4 subprocesses. Full list in Appendix B.

6 Verification

Field	Value
Signer	Signed by the K-Veritas server
Signed at	2026-10-10T21:34:06.854044+00:00
Algorithm	RSA-PSS-SHA256, 4096-bit key
Key fingerprint	eeac81653cf44ac029c4069cf2a06d9f
Data hash	6cdf0f4b58cd2acc903e460539b4470551fcb4015ee4c949577760b25e083eeb
Code bundle hash	5042560c5889f38755b55d7c6cfe7b4689a2f3fe71b969abf58ab0cd5f56c167

Run anchors: 1 invocations were anchored at the server when they ended.

Checks a verifier runs

1. The stored canonical data hashes to the data hash above, and the signature verifies over data_hash:nonce:signed_at.
2. The signing key is the K-Veritas server key, not one supplied by the author.
3. Nothing was appended after the seal, and these pages hash to the value bound in the seal.
4. Each run matches the digest the server received when it ended.
5. A supplied code bundle hashes to the code bundle hash above.

References

- [1] M. K. Keita and C. Homan. Computer Science Conferences Should Require Nonrepudiable Experimental Results. NeurIPS 2026 Position Paper Track. arXiv:2605.08586.

Appendix

A Full metric series

Run 1: kv_run.sh

Metric	Value	Step	Line	Source
average_ndcg_at_10	49.903		19	explicit
fiqa_ndcg_at_10	39.117		21	explicit
nfcopus_ndcg_at_10	36.799		23	explicit
scifact_ndcg_at_10	73.794		25	explicit
average_recall_at_100	67.768		27	explicit
fiqa_recall_at_100	73.119		29	explicit
nfcopus_recall_at_100	33.184		31	explicit
scifact_recall_at_100	97		33	explicit

Phase	Line	Time	CPU time	Memory	GPU
evaluate	1	21:31:49	1.6 s	0.59 GB	

B Provenance timeline and activity map

Run 1: kv_run.sh

#	Snapshot	Time	Root	Changed
0	run_start	21:31:49	a3eae572ae57e1a	758
1	phase evaluate	21:31:49	a3eae572ae57e1a	0
2	run_end	21:34:05	a3eae572ae57e1a	0

Event	Path or command	Hash
read	kv_run.sh	
read	FlagEmbedding/__init__.py	
read	FlagEmbedding/abc/__init__.py	
read	FlagEmbedding/abc/inference/__init__.py	
read	FlagEmbedding/abc/inference/AbsEmbedder.py	
read	.kveritasignore	
read	.github/workflows/documentation.yml	
read	FlagEmbedding/abc/evaluation/__init__.py	
read	FlagEmbedding/abc/evaluation/arguments.py	
read	FlagEmbedding/abc/evaluation/data_loader.py	
read	FlagEmbedding/abc/evaluation/evaluator.py	
read	FlagEmbedding/abc/evaluation/runner.py	
read	FlagEmbedding/abc/evaluation/searcher.py	
read	FlagEmbedding/abc/evaluation/utils.py	
read	FlagEmbedding/abc/finetune/__init__.py	
read	FlagEmbedding/abc/finetune/embedder/AbsArguments.py	
read	FlagEmbedding/abc/finetune/embedder/AbsDataset.py	
read	FlagEmbedding/abc/finetune/embedder/AbsModeling.py	
read	FlagEmbedding/abc/finetune/embedder/AbsRunner.py	
read	FlagEmbedding/abc/finetune/embedder/AbsTrainer.py	
read	FlagEmbedding/abc/finetune/embedder/__init__.py	
read	FlagEmbedding/abc/finetune/reranker/AbsArguments.py	

Event	Path or command	Hash
read	FlagEmbedding/abc/finetune/reranker/AbsDataset.py	
read	FlagEmbedding/abc/finetune/reranker/AbsModeling.py	
read	FlagEmbedding/abc/finetune/reranker/AbsRunner.py	
read	FlagEmbedding/abc/finetune/reranker/AbsTrainer.py	
read	FlagEmbedding/abc/finetune/reranker/__init__.py	
read	FlagEmbedding/abc/inference/AbsReranker.py	
read	FlagEmbedding/evaluation/__init__.py	
read	FlagEmbedding/evaluation/air_bench/__init__.py	
read	FlagEmbedding/evaluation/air_bench/__main__.py	
read	FlagEmbedding/evaluation/air_bench/arguments.py	
read	FlagEmbedding/evaluation/air_bench/runner.py	
read	FlagEmbedding/evaluation/beir/__init__.py	
read	FlagEmbedding/evaluation/beir/__main__.py	
read	FlagEmbedding/evaluation/beir/arguments.py	
read	FlagEmbedding/evaluation/beir/data_loader.py	
read	FlagEmbedding/evaluation/beir/evaluator.py	
read	FlagEmbedding/evaluation/beir/prompts.py	
read	FlagEmbedding/evaluation/beir/runner.py	
read	FlagEmbedding/evaluation/bright/__init__.py	
read	FlagEmbedding/evaluation/bright/__main__.py	
read	FlagEmbedding/evaluation/bright/arguments.py	
read	FlagEmbedding/evaluation/bright/data_loader.py	
read	FlagEmbedding/evaluation/bright/prompts.py	
read	FlagEmbedding/evaluation/bright/runner.py	
read	FlagEmbedding/evaluation/bright/searcher.py	
read	FlagEmbedding/evaluation/custom/__init__.py	
read	FlagEmbedding/evaluation/custom/__main__.py	
read	FlagEmbedding/evaluation/custom/data_loader.py	
read	FlagEmbedding/evaluation/custom/runner.py	
read	FlagEmbedding/evaluation/miracl/__init__.py	
read	FlagEmbedding/evaluation/miracl/__main__.py	
read	FlagEmbedding/evaluation/miracl/data_loader.py	
read	FlagEmbedding/evaluation/miracl/runner.py	
read	FlagEmbedding/evaluation/mkqa/__init__.py	
read	FlagEmbedding/evaluation/mkqa/__main__.py	
read	FlagEmbedding/evaluation/mkqa/data_loader.py	
read	FlagEmbedding/evaluation/mkqa/evaluator.py	
read	FlagEmbedding/evaluation/mkqa/runner.py	
read	FlagEmbedding/evaluation/mkqa/utils/compute_metrics.py	
read	FlagEmbedding/evaluation/mkqa/utils/normalize_text.py	
read	FlagEmbedding/evaluation/mlldr/__init__.py	
read	FlagEmbedding/evaluation/mlldr/__main__.py	
read	FlagEmbedding/evaluation/mlldr/data_loader.py	
read	FlagEmbedding/evaluation/mlldr/runner.py	
read	FlagEmbedding/evaluation/msmarco/__init__.py	
read	FlagEmbedding/evaluation/msmarco/__main__.py	
read	FlagEmbedding/evaluation/msmarco/data_loader.py	
read	FlagEmbedding/evaluation/msmarco/runner.py	
read	FlagEmbedding/evaluation/mteb/__init__.py	
read	FlagEmbedding/evaluation/mteb/__main__.py	

Event	Path or command	Hash
read	FlagEmbedding/evaluation/mteb/arguments.py	
read	FlagEmbedding/evaluation/mteb/prompts.py	
read	FlagEmbedding/evaluation/mteb/runner.py	
read	FlagEmbedding/evaluation/mteb/searcher.py	
read	FlagEmbedding/finetune/__init__.py	
read	FlagEmbedding/finetune/embedder/__init__.py	
read	FlagEmbedding/finetune/embedder/decoder_only/__init__.py	
read	FlagEmbedding/finetune/embedder/decoder_only/base/__init__.py	
read	FlagEmbedding/finetune/embedder/decoder_only/base/__main__.py	
read	FlagEmbedding/finetune/embedder/decoder_only/base/arguments.py	
read	FlagEmbedding/finetune/embedder/decoder_only/base/load_model.py	
read	FlagEmbedding/finetune/embedder/decoder_only/base/modeling.py	
read	FlagEmbedding/finetune/embedder/decoder_only/base/runner.py	
read	FlagEmbedding/finetune/embedder/decoder_only/base/trainer.py	
read	FlagEmbedding/finetune/embedder/decoder_only/icl/__init__.py	
read	FlagEmbedding/finetune/embedder/decoder_only/icl/__main__.py	
read	FlagEmbedding/finetune/embedder/decoder_only/icl/arguments.py	
read	FlagEmbedding/finetune/embedder/decoder_only/icl/dataset.py	
read	FlagEmbedding/finetune/embedder/decoder_only/icl/load_model.py	
read	FlagEmbedding/finetune/embedder/decoder_only/icl/modeling.py	
read	FlagEmbedding/finetune/embedder/decoder_only/icl/runner.py	
read	FlagEmbedding/finetune/embedder/decoder_only/icl/trainer.py	
read	FlagEmbedding/finetune/embedder/encoder_only/__init__.py	
read	FlagEmbedding/finetune/embedder/encoder_only/base/__init__.py	
read	FlagEmbedding/finetune/embedder/encoder_only/base/__main__.py	
read	FlagEmbedding/finetune/embedder/encoder_only/base/modeling.py	
read	FlagEmbedding/finetune/embedder/encoder_only/base/runner.py	
read	FlagEmbedding/finetune/embedder/encoder_only/base/trainer.py	
read	FlagEmbedding/finetune/embedder/encoder_only/m3/__init__.py	
read	FlagEmbedding/finetune/embedder/encoder_only/m3/__main__.py	
read	FlagEmbedding/finetune/embedder/encoder_only/m3/arguments.py	
read	FlagEmbedding/finetune/embedder/encoder_only/m3/modeling.py	
read	FlagEmbedding/finetune/embedder/encoder_only/m3/runner.py	
read	FlagEmbedding/finetune/embedder/encoder_only/m3/trainer.py	
read	FlagEmbedding/finetune/reranker/__init__.py	
read	FlagEmbedding/finetune/reranker/decoder_only/__init__.py	
read	FlagEmbedding/finetune/reranker/decoder_only/base/__init__.py	
read	FlagEmbedding/finetune/reranker/decoder_only/base/__main__.py	
read	FlagEmbedding/finetune/reranker/decoder_only/base/arguments.py	
read	FlagEmbedding/finetune/reranker/decoder_only/base/load_model.py	
read	FlagEmbedding/finetune/reranker/decoder_only/base/modeling.py	
read	FlagEmbedding/finetune/reranker/decoder_only/base/runner.py	
read	FlagEmbedding/finetune/reranker/decoder_only/base/trainer.py	
read	FlagEmbedding/finetune/reranker/decoder_only/layerwise/__init__.py	
read	FlagEmbedding/finetune/reranker/decoder_only/layerwise/__main__.py	
read	FlagEmbedding/finetune/reranker/decoder_only/layerwise/arguments.py	
read	FlagEmbedding/finetune/reranker/decoder_only/layerwise/configuration_min...	
read	FlagEmbedding/finetune/reranker/decoder_only/layerwise/load_model.py	
read	FlagEmbedding/finetune/reranker/decoder_only/layerwise/modeling.py	
read	FlagEmbedding/finetune/reranker/decoder_only/layerwise/modeling_minicp...	

Event	Path or command	Hash
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read	FlagEmbedding/finetune/reranker/decoder_only/layerwise/trainer.py	
read	FlagEmbedding/finetune/reranker/encoder_only/__init__.py	
read	FlagEmbedding/finetune/reranker/encoder_only/base/__init__.py	
read	FlagEmbedding/finetune/reranker/encoder_only/base/__main__.py	
read	FlagEmbedding/finetune/reranker/encoder_only/base/modeling.py	
read	FlagEmbedding/finetune/reranker/encoder_only/base/runner.py	
read	FlagEmbedding/finetune/reranker/encoder_only/base/trainer.py	
read	FlagEmbedding/inference/__init__.py	
read	FlagEmbedding/inference/auto_embedder.py	
read	FlagEmbedding/inference/auto_reranker.py	
read	FlagEmbedding/inference/embedder/__init__.py	
read	FlagEmbedding/inference/embedder/decoder_only/__init__.py	
read	FlagEmbedding/inference/embedder/decoder_only/base.py	
read	FlagEmbedding/inference/embedder/decoder_only/icl.py	
read	FlagEmbedding/inference/embedder/decoder_only/pseudo_moe.py	
read	FlagEmbedding/inference/embedder/encoder_only/__init__.py	
read	FlagEmbedding/inference/embedder/encoder_only/base.py	
read	FlagEmbedding/inference/embedder/encoder_only/m3.py	
read	FlagEmbedding/inference/embedder/model_mapping.py	
read	FlagEmbedding/inference/reranker/__init__.py	
read	FlagEmbedding/inference/reranker/decoder_only/__init__.py	
read	FlagEmbedding/inference/reranker/decoder_only/base.py	
read	FlagEmbedding/inference/reranker/decoder_only/layerwise.py	
read	FlagEmbedding/inference/reranker/decoder_only/lightweight.py	
read	FlagEmbedding/inference/reranker/decoder_only/models/__init__.py	
read	FlagEmbedding/inference/reranker/decoder_only/models/configuration_minicpm...	
read	FlagEmbedding/inference/reranker/decoder_only/models/gemma_config.py	
read	FlagEmbedding/inference/reranker/decoder_only/models/gemma_model.py	
read	FlagEmbedding/inference/reranker/decoder_only/models/modeling_minicpm...	
read	FlagEmbedding/inference/reranker/encoder_only/__init__.py	
read	FlagEmbedding/inference/reranker/encoder_only/base.py	
read	FlagEmbedding/inference/reranker/model_mapping.py	
read	FlagEmbedding/utils/__init__.py	
read	FlagEmbedding/utils/tokenizer_compat.py	
read	FlagEmbedding/utils/transformers_compat.py	
read	Tutorials/1_Embedding/1.1_Intro&Inference.ipynb	
read	Tutorials/1_Embedding/1.2.1_BGE_Series.ipynb	
read	Tutorials/1_Embedding/1.2.2_Auto_Embedder.ipynb	
read	Tutorials/1_Embedding/1.2.3_BGE_v1&1.5.ipynb	
read	Tutorials/1_Embedding/1.2.4_BGE-M3.ipynb	
read	Tutorials/1_Embedding/1.2.5_BGE_EN_ICL.ipynb	
read	Tutorials/1_Embedding/1.2.6_BGE_VL.ipynb	
read	Tutorials/1_Embedding/1.2.7_BGE_Code_v1.ipynb	
read	Tutorials/2_Metrics/2.1_Similarity_Metrics.ipynb	
read	Tutorials/2_Metrics/2.2_Eval_Metrics.ipynb	
read	Tutorials/3_Indexing/3.1.1_Intro_to_Faiss.ipynb	
read	Tutorials/3_Indexing/3.1.2_Faiss_GPU.ipynb	
read	Tutorials/3_Indexing/3.1.3_Faiss_Indexes.ipynb	
read	Tutorials/3_Indexing/3.1.4_Faiss_Quantizers.ipynb	

Event	Path or command	Hash
read	Tutorials/3_Indexing/3.1.5_Faiss_Index_Choosing.ipynb	
read	Tutorials/4_Evaluation/4.1.1_Evaluation_MS MARCO.ipynb	
read	Tutorials/4_Evaluation/4.2.1_MTEB_Intro.ipynb	
read	Tutorials/4_Evaluation/4.2.2_MTEB_Leaderboard.ipynb	
read	Tutorials/4_Evaluation/4.2.3_C-MTEB.ipynb	
read	Tutorials/4_Evaluation/4.3.1_Sentence_Transformers_Eval.ipynb	
read	Tutorials/4_Evaluation/4.4.1_BEIR.ipynb	
read	Tutorials/4_Evaluation/4.5.1_MIRACL.ipynb	
read	Tutorials/4_Evaluation/4.5.2_MLDR.ipynb	
read	Tutorials/4_Evaluation/utils/compute_metrics.py	
read	Tutorials/4_Evaluation/utils/normalize_text.py	
read	Tutorials/5_Reranking/5.1_Intro.ipynb	
read	Tutorials/5_Reranking/5.2_BGE_Reranker.ipynb	
read	Tutorials/5_Reranking/5.3_Reranker_Eval.ipynb	
read	Tutorials/6_RAG/6.1_RAG_From_Scratch.ipynb	
read	Tutorials/6_RAG/6.2_RAG_LangChain.ipynb	
read	Tutorials/6_RAG/6.3_RAG_LlamaIndex.ipynb	
read	Tutorials/7_Fine-tuning/7.1.1_Data_preparation.ipynb	
read	Tutorials/7_Fine-tuning/7.1.2_Fine-tune.ipynb	
read	Tutorials/7_Fine-tuning/7.1.3_Eval_FT_Model.ipynb	
read	Tutorials/7_Fine-tuning/7.2.1_Hard_Negative_Mining.ipynb	
read	Tutorials/7_Fine-tuning/config/ds_stage0.json	
read	Tutorials/7_Fine-tuning/config/ds_stage1.json	
read	Tutorials/quick_start.ipynb	
read	docs/source/Introduction/retrieval_demo.ipynb	
read	docs/source/conf.py	
read	docs/source/tutorial/1_Embedding/1.1.1.ipynb	
read	docs/source/tutorial/1_Embedding/1.2.1.ipynb	
read	docs/source/tutorial/1_Embedding/1.2.2.ipynb	
read	docs/source/tutorial/1_Embedding/1.2.3.ipynb	
read	docs/source/tutorial/1_Embedding/1.2.4.ipynb	
read	docs/source/tutorial/1_Embedding/1.2.5.ipynb	
read	docs/source/tutorial/2_Metrics/2.1.ipynb	
read	docs/source/tutorial/2_Metrics/2.2.ipynb	
read	docs/source/tutorial/3_Indexing/3.1.1.ipynb	
read	docs/source/tutorial/3_Indexing/3.1.2.ipynb	
read	docs/source/tutorial/3_Indexing/3.1.3.ipynb	
read	docs/source/tutorial/3_Indexing/3.1.4.ipynb	
read	docs/source/tutorial/3_Indexing/3.1.5.ipynb	
read	docs/source/tutorial/4_Evaluation/4.1.1.ipynb	
read	docs/source/tutorial/4_Evaluation/4.2.1.ipynb	
read	docs/source/tutorial/4_Evaluation/4.2.2.ipynb	
read	docs/source/tutorial/4_Evaluation/4.2.3.ipynb	
read	docs/source/tutorial/4_Evaluation/4.3.1.ipynb	
read	docs/source/tutorial/4_Evaluation/4.4.1.ipynb	
read	docs/source/tutorial/4_Evaluation/4.5.1.ipynb	
read	docs/source/tutorial/4_Evaluation/4.5.2.ipynb	
read	docs/source/tutorial/5_Reranking/5.1.ipynb	
read	docs/source/tutorial/5_Reranking/5.2.ipynb	
read	docs/source/tutorial/5_Reranking/5.3.ipynb	

Event	Path or command	Hash
read	docs/source/tutorial/6_RAG/6.1.ipynb	
read	docs/source/tutorial/6_RAG/6.2.ipynb	
read	docs/source/tutorial/6_RAG/6.3.ipynb	
read	docs/source/tutorial/7_Finetuning/7.1.1.ipynb	
read	docs/source/tutorial/7_Finetuning/7.1.2.ipynb	
read	docs/source/tutorial/7_Finetuning/7.1.3.ipynb	
read	docs/source/tutorial/7_Finetuning/7.2.1.ipynb	
read	examples/evaluation/air_bench/eval_air_bench.sh	
read	examples/evaluation/beir/eval_beir.sh	
read	examples/evaluation/bright/eval_bright_short.sh	
read	examples/evaluation/miracl/eval_miracl.sh	
read	examples/evaluation/mkqa/eval_mkqa.sh	
read	examples/evaluation/mlldr/eval_mldr.sh	
read	examples/evaluation/msmarco/eval_msmarco.sh	
read	examples/evaluation/mteb/eval_mteb.sh	
read	examples/finetune/ds_stage0.json	
read	examples/finetune/ds_stage1.json	
read	examples/finetune/embedder/decoder_only/base.sh	
read	examples/finetune/embedder/decoder_only/base_same_dataset.sh	
read	examples/finetune/embedder/decoder_only/icl_same_dataset.sh	
read	examples/finetune/embedder/encoder_only/base.sh	
read	examples/finetune/embedder/encoder_only/base_same_dataset.sh	
read	examples/finetune/embedder/encoder_only/m3.sh	
read	examples/finetune/embedder/encoder_only/m3_same_dataset.sh	
read	examples/finetune/reranker/decoder_only/base.sh	
read	examples/finetune/reranker/decoder_only/layerwise.sh	
read	examples/finetune/reranker/encoder_only/base.sh	
read	examples/inference/embedder/decoder_only/auto_base_multi_devices.py	
read	examples/inference/embedder/decoder_only/auto_base_single_device.py	
read	examples/inference/embedder/decoder_only/auto_icl_multi_devices.py	
read	examples/inference/embedder/decoder_only/auto_icl_single_device.py	
read	examples/inference/embedder/decoder_only/auto_pseudo_moe_multi_devices...	
read	examples/inference/embedder/decoder_only/auto_pseudo_moe_single_device...	
read	examples/inference/embedder/decoder_only/base_multi_devices.py	
read	examples/inference/embedder/decoder_only/base_single_device.py	
read	examples/inference/embedder/decoder_only/icl_multi_devices.py	
read	examples/inference/embedder/decoder_only/icl_single_device.py	
read	examples/inference/embedder/decoder_only/pseudo_moe_multi_devices.py	
read	examples/inference/embedder/decoder_only/pseudo_moe_single_device.py	
read	examples/inference/embedder/encoder_only/auto_base_multi_devices.py	
read	examples/inference/embedder/encoder_only/auto_base_single_device.py	
read	examples/inference/embedder/encoder_only/auto_m3_multi_devices.py	
read	examples/inference/embedder/encoder_only/auto_m3_single_device.py	
read	examples/inference/embedder/encoder_only/base_multi_devices.py	
read	examples/inference/embedder/encoder_only/base_single_device.py	
read	examples/inference/embedder/encoder_only/m3_multi_devices.py	
read	examples/inference/embedder/encoder_only/m3_multi_devices_compute_sco...	
read	examples/inference/embedder/encoder_only/m3_single_device.py	
read	examples/inference/embedder/encoder_only/m3_single_device_compute_scor...	
read	examples/inference/reranker/decoder_only/auto_base_multi_devices.py	

Event	Path or command	Hash
read	examples/inference/reranker/decoder_only/auto_base_single_device.py	
read	examples/inference/reranker/decoder_only/auto_layerwise_multi_devices.py	
read	examples/inference/reranker/decoder_only/auto_layerwise_single_device.py	
read	examples/inference/reranker/decoder_only/auto_lightweight_multi_devices.py	
read	examples/inference/reranker/decoder_only/auto_lightweight_single_device.py	
read	examples/inference/reranker/decoder_only/base_multi_devices.py	
read	examples/inference/reranker/decoder_only/base_single_device.py	
read	examples/inference/reranker/decoder_only/layerwise_multi_devices.py	
read	examples/inference/reranker/decoder_only/layerwise_single_device.py	
read	examples/inference/reranker/decoder_only/lightweight_multi_devices.py	
read	examples/inference/reranker/decoder_only/lightweight_single_device.py	
read	examples/inference/reranker/encoder_only/auto_base_multi_devices.py	
read	examples/inference/reranker/encoder_only/auto_base_single_device.py	
read	examples/inference/reranker/encoder_only/base_multi_devices.py	
read	examples/inference/reranker/encoder_only/base_single_device.py	
read	research/BGE_Coder/data_generation/constant.py	
read	research/BGE_Coder/data_generation/corpus_generator.py	
read	research/BGE_Coder/data_generation/format_generated_examples.py	
read	research/BGE_Coder/data_generation/llm.py	
read	research/BGE_Coder/data_generation/run_generation.py	
read	research/BGE_Coder/data_generation/search.py	
read	research/BGE_Coder/data_generation/triplet_generator.py	
read	research/BGE_Coder/data_generation/utils.py	
read	research/BGE_Coder/evaluation/coderag_eval/eval.sh	
read	research/BGE_Coder/evaluation/coderag_eval/prepare_data.sh	
read	research/BGE_Coder/evaluation/coderag_eval/test/arguments.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/code_search_net.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/ds1000.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/general_programmi...	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/humaneval.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/live_code_bench.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/mbpp.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/odex.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/repoeval.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/repoeval_repo.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/swebench.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/swebench_repo.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/create/utils.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/main.py	
read	research/BGE_Coder/evaluation/coderag_eval/test/prompts.py	
read	research/BGE_Coder/evaluation/coir_eval/arguments.py	
read	research/BGE_Coder/evaluation/coir_eval/eval.sh	
read	research/BGE_Coder/evaluation/coir_eval/main.py	
read	research/BGE_Coder/evaluation/coir_eval/prompts.py	
read	research/BGE_M3/__init__.py	
read	research/BGE_M3/arguments.py	
read	research/BGE_M3/data.py	
read	research/BGE_M3/modeling.py	
read	research/BGE_M3/run.py	
read	research/BGE_M3/split_data_by_length.py	

Event	Path or command	Hash
read	research/BGE_M3/trainer.py	
read	research/BGE_VL/eval/eval_Circo.py	
read	research/BGE_VL/eval/eval_fashioniq.py	
read	research/BGE_VL/eval/flag_dataset.py	
read	research/BGE_VL/eval/flag_mmret.py	
read	research/BGE_VL/eval/results/mmret_base_circo.json	
read	research/BGE_VL/eval/results/mmret_large_circo.json	
read	research/BGE_VL/modeling_MMRet_CLIP.py	
read	research/BGE_VL/retrieval_demo.ipynb	
read	research/C_MTEB/C_MTEB/__init__.py	
read	research/C_MTEB/C_MTEB/tasks/Classification.py	
read	research/C_MTEB/C_MTEB/tasks/Clustering.py	
read	research/C_MTEB/C_MTEB/tasks/MultiLongDocRetrieval.py	
read	research/C_MTEB/C_MTEB/tasks/PairClassification.py	
read	research/C_MTEB/C_MTEB/tasks/Reranking.py	
read	research/C_MTEB/C_MTEB/tasks/Retrieval.py	
read	research/C_MTEB/C_MTEB/tasks/STS.py	
read	research/C_MTEB/C_MTEB/tasks/__init__.py	
read	research/C_MTEB/MKQA/dense_retrieval/step0-generate_embedding.py	
read	research/C_MTEB/MKQA/dense_retrieval/step1-search_results.py	
read	research/C_MTEB/MKQA/dense_retrieval/step2-eval_dense_mkqa.py	
read	research/C_MTEB/MKQA/hybrid_retrieval/step0-hybrid_search_results.py	
read	research/C_MTEB/MKQA/hybrid_retrieval/step1-eval_hybrid_mkqa.py	
read	research/C_MTEB/MKQA/multi_vector_rerank/hybrid_all_results.py	
read	research/C_MTEB/MKQA/multi_vector_rerank/step0-rerank_results.py	
read	research/C_MTEB/MKQA/multi_vector_rerank/step1-eval_rerank_mkqa.py	
read	research/C_MTEB/MKQA/sparse_retrieval/bm25_baseline.py	
read	research/C_MTEB/MKQA/sparse_retrieval/bm25_baseline_same_tokenizer.py	
read	research/C_MTEB/MKQA/sparse_retrieval/step0-encode_query-and-corpus.py	
read	research/C_MTEB/MKQA/sparse_retrieval/step1-search_results.py	
read	research/C_MTEB/MKQA/sparse_retrieval/step2-eval_sparse_mkqa.py	
read	research/C_MTEB/MKQA/utils/__init__.py	
read	research/C_MTEB/MKQA/utils/evaluation.py	
read	research/C_MTEB/MKQA/utils/normalize_text.py	
read	research/C_MTEB/MLDR/dense_retrieval/step0-generate_embedding.py	
read	research/C_MTEB/MLDR/dense_retrieval/step1-search_results.py	
read	research/C_MTEB/MLDR/dense_retrieval/step2-eval_dense_mldr.py	
read	research/C_MTEB/MLDR/hybrid_retrieval/step0-hybrid_search_results.py	
read	research/C_MTEB/MLDR/hybrid_retrieval/step1-eval_hybrid_mldr.py	
read	research/C_MTEB/MLDR/mteb_dense_eval/eval_MLDR.py	
read	research/C_MTEB/MLDR/mteb_dense_eval/flag_dres_model.py	
read	research/C_MTEB/MLDR/multi_vector_rerank/hybrid_all_results.py	
read	research/C_MTEB/MLDR/multi_vector_rerank/step0-rerank_results.py	
read	research/C_MTEB/MLDR/multi_vector_rerank/step1-eval_rerank_mldr.py	
read	research/C_MTEB/MLDR/sparse_retrieval/bm25_baseline.py	
read	research/C_MTEB/MLDR/sparse_retrieval/bm25_baseline_same_tokenizer.py	
read	research/C_MTEB/MLDR/sparse_retrieval/step0-encode_query-and-corpus.py	
read	research/C_MTEB/MLDR/sparse_retrieval/step1-search_results.py	
read	research/C_MTEB/MLDR/sparse_retrieval/step2-eval_sparse_mldr.py	
read	research/C_MTEB/eval_C-MTEB.py	

Event	Path or command	Hash
read	research/C_MTEB/eval_MTEB.py	
read	research/C_MTEB/eval_cross_encoder.py	
read	research/C_MTEB/flag_dres_model.py	
read	research/C_MTEB/setup.py	
read	research/C_MTEB/summarize_results.py	
read	research/LLARA/finetune/__init__.py	
read	research/LLARA/finetune/arguments.py	
read	research/LLARA/finetune/data.py	
read	research/LLARA/finetune/load_model.py	
read	research/LLARA/finetune/modeling.py	
read	research/LLARA/finetune/run.py	
read	research/LLARA/finetune/trainer.py	
read	research/LLARA/pretrain/__init__.py	
read	research/LLARA/pretrain/arguments.py	
read	research/LLARA/pretrain/data.py	
read	research/LLARA/pretrain/load_model.py	
read	research/LLARA/pretrain/modeling.py	
read	research/LLARA/pretrain/run.py	
read	research/LLARA/pretrain/trainer.py	
read	research/LLARA/stage1.json	
read	research/LM_Cocktail/LM_Cocktail/__init__.py	
read	research/LM_Cocktail/LM_Cocktail/cocktail.py	
read	research/LM_Cocktail/LM_Cocktail/utils.py	
read	research/LM_Cocktail/embedder_examples.json	
read	research/LM_Cocktail/llm_examples.json	
read	research/LM_Cocktail/setup.py	
read	research/Long_LLM/activation_beacon/data/config/code.json	
read	research/Long_LLM/activation_beacon/data/config/even.json	
read	research/Long_LLM/activation_beacon/data/config/fsdp-offload.yaml	
read	research/Long_LLM/activation_beacon/data/config/fsdp.yaml	
read	research/Long_LLM/activation_beacon/data/config/slimpajama.json	
read	research/Long_LLM/activation_beacon/data/config/zero3-infer-offload.yaml	
read	research/Long_LLM/activation_beacon/data/config/zero3-infer.yaml	
read	research/Long_LLM/activation_beacon/data/deepspeed/stage2-offload.json	
read	research/Long_LLM/activation_beacon/data/deepspeed/stage2.json	
read	research/Long_LLM/activation_beacon/data/deepspeed/stage3-offload-optim....	
read	research/Long_LLM/activation_beacon/data/deepspeed/stage3-offload.json	
read	research/Long_LLM/activation_beacon/data/deepspeed/stage3.json	
read	research/Long_LLM/activation_beacon/data/toy/infbench.json	
read	research/Long_LLM/activation_beacon/main/eval_generation.py	
read	research/Long_LLM/activation_beacon/main/eval_infbench.py	
read	research/Long_LLM/activation_beacon/main/eval_lm.py	
read	research/Long_LLM/activation_beacon/main/eval_longbench.py	
read	research/Long_LLM/activation_beacon/main/eval_mmlu.py	
read	research/Long_LLM/activation_beacon/main/eval_msc.py	
read	research/Long_LLM/activation_beacon/main/eval_multiturn.py	
read	research/Long_LLM/activation_beacon/main/eval_needle.py	
read	research/Long_LLM/activation_beacon/main/eval_passkey.py	
read	research/Long_LLM/activation_beacon/main/eval_topic.py	
read	research/Long_LLM/activation_beacon/main/infbench_utils.py	

Event	Path or command	Hash
read	research/Long_LLM/activation_beacon/main/longbench_utils.py	
read	research/Long_LLM/activation_beacon/main/pretrain_data.py	
read	research/Long_LLM/activation_beacon/main/train.py	
read	research/Long_LLM/activation_beacon/main/vllm_symlink.py	
read	research/Long_LLM/activation_beacon/src/__init__.py	
read	research/Long_LLM/activation_beacon/src/args.py	
read	research/Long_LLM/activation_beacon/src/chat.py	
read	research/Long_LLM/activation_beacon/src/data.py	
read	research/Long_LLM/activation_beacon/src/llama/__init__.py	
read	research/Long_LLM/activation_beacon/src/llama/configuration_llama.py	
read	research/Long_LLM/activation_beacon/src/llama/modeling_llama.py	
read	research/Long_LLM/activation_beacon/src/metrics.py	
read	research/Long_LLM/activation_beacon/src/mistral/__init__.py	
read	research/Long_LLM/activation_beacon/src/mistral/configuration_mistral.py	
read	research/Long_LLM/activation_beacon/src/mistral/modeling_mistral.py	
read	research/Long_LLM/activation_beacon/src/modeling_beacon.py	
read	research/Long_LLM/activation_beacon/src/modeling_utils.py	
read	research/Long_LLM/activation_beacon/src/qwen2/__init__.py	
read	research/Long_LLM/activation_beacon/src/qwen2/configuration_qwen2.py	
read	research/Long_LLM/activation_beacon/src/qwen2/modeling_qwen2.py	
read	research/Long_LLM/activation_beacon/src/trainer.py	
read	research/Long_LLM/activation_beacon/src/utils.py	
read	research/Long_LLM/activation_beacon/src/vllm_utils.py	
read	research/Long_LLM/longllm_qlora/data/narrativeqa.json	
read	research/Long_LLM/longllm_qlora/data_pipeline/_openai.py	
read	research/Long_LLM/longllm_qlora/data_pipeline/prepare_bio_book.ipynb	
read	research/Long_LLM/longllm_qlora/data_pipeline/prepare_multi_details_boo...	
read	research/Long_LLM/longllm_qlora/data_pipeline/prepare_multi_details_pape...	
read	research/Long_LLM/longllm_qlora/data_pipeline/prepare_one_detail_book.i...	
read	research/Long_LLM/longllm_qlora/data_pipeline/prepare_one_detail_paper_l...	
read	research/Long_LLM/longllm_qlora/main/eval_generation.py	
read	research/Long_LLM/longllm_qlora/main/eval_infbench.py	
read	research/Long_LLM/longllm_qlora/main/eval_lm.py	
read	research/Long_LLM/longllm_qlora/main/eval_longbench.py	
read	research/Long_LLM/longllm_qlora/main/eval_mmlu.py	
read	research/Long_LLM/longllm_qlora/main/eval_needle.py	
read	research/Long_LLM/longllm_qlora/main/eval_passkey.py	
read	research/Long_LLM/longllm_qlora/main/eval_topic.py	
read	research/Long_LLM/longllm_qlora/main/infbench_utils.py	
read	research/Long_LLM/longllm_qlora/main/longbench_utils.py	
read	research/Long_LLM/longllm_qlora/main/train.py	
read	research/Long_LLM/longllm_qlora/src/__init__.py	
read	research/Long_LLM/longllm_qlora/src/args.py	
read	research/Long_LLM/longllm_qlora/src/chat.py	
read	research/Long_LLM/longllm_qlora/src/data.py	
read	research/Long_LLM/longllm_qlora/src/metrics.py	
read	research/Long_LLM/longllm_qlora/src/modeling_utils.py	
read	research/Long_LLM/longllm_qlora/src/trainer.py	
read	research/Long_LLM/longllm_qlora/src/utils.py	
read	research/MLVU/data/1_plotQA.json	

Event	Path or command	Hash
read	research/MLVU/data/2_needle.json	
read	research/MLVU/data/3_ego.json	
read	research/MLVU/data/4_count.json	
read	research/MLVU/data/5_order.json	
read	research/MLVU/data/6_anomaly_reco.json	
read	research/MLVU/data/7_topic_reasoning.json	
read	research/MLVU/data/8_sub_scene.json	
read	research/MLVU/data/9_summary.json	
read	research/MLVU/evaluation/generation_evaluation/calculate.py	
read	research/MLVU/evaluation/generation_evaluation/calculate_sum.py	
read	research/MLVU/evaluation/generation_evaluation/evaluate_ssc.py	
read	research/MLVU/evaluation/generation_evaluation/evaluate_summary.py	
read	research/MLVU/evaluation/generation_evaluation/open_bench.py	
read	research/MLVU/evaluation/models/videochat2/choice_bench.py	
read	research/MLVU/evaluation/models/videochat2/open_bench.py	
read	research/MLVU/evaluation/models/videollava/choice_bench.py	
read	research/MLVU/evaluation/models/videollava/open_bench.py	
read	research/MLVU/evaluation/multiple_choice_evaluation/choice_bench.py	
read	research/Matroyshka_reranker/finetune/compensation/__init__.py	
read	research/Matroyshka_reranker/finetune/compensation/arguments.py	
read	research/Matroyshka_reranker/finetune/compensation/data.py	
read	research/Matroyshka_reranker/finetune/compensation/load_model.py	
read	research/Matroyshka_reranker/finetune/compensation/mistral_config.py	
read	research/Matroyshka_reranker/finetune/compensation/mistral_model.py	
read	research/Matroyshka_reranker/finetune/compensation/modeling.py	
read	research/Matroyshka_reranker/finetune/compensation/run.py	
read	research/Matroyshka_reranker/finetune/compensation/stage1.json	
read	research/Matroyshka_reranker/finetune/compensation/trainer.py	
read	research/Matroyshka_reranker/finetune/self_distillation/__init__.py	
read	research/Matroyshka_reranker/finetune/self_distillation/arguments.py	
read	research/Matroyshka_reranker/finetune/self_distillation/data.py	
read	research/Matroyshka_reranker/finetune/self_distillation/load_model.py	
read	research/Matroyshka_reranker/finetune/self_distillation/mistral_config.py	
read	research/Matroyshka_reranker/finetune/self_distillation/mistral_model.py	
read	research/Matroyshka_reranker/finetune/self_distillation/modeling.py	
read	research/Matroyshka_reranker/finetune/self_distillation/run.py	
read	research/Matroyshka_reranker/finetune/self_distillation/stage1.json	
read	research/Matroyshka_reranker/finetune/self_distillation/trainer.py	
read	research/Matroyshka_reranker/inference/__init__.py	
read	research/Matroyshka_reranker/inference/mistral_config.py	
read	research/Matroyshka_reranker/inference/mistral_model.py	
read	research/Matroyshka_reranker/inference/rank_model.py	
read	research/Reinforced_IR/data_generation/agent/__init__.py	
read	research/Reinforced_IR/data_generation/agent/gpt.py	
read	research/Reinforced_IR/data_generation/agent/vllm.py	
read	research/Reinforced_IR/data_generation/agent/vllm_instruct.py	
read	research/Reinforced_IR/data_generation/generate_generator_data.py	
read	research/Reinforced_IR/data_generation/generate_retriever_data.py	
read	research/Reinforced_IR/data_generation/generate_retriever_distill_data.py	
read	research/Reinforced_IR/data_generation/generate_universal_query.py	

Event	Path or command	Hash
read	research/Reinforced_IR/data_generation/prompts/__init__.py	
read	research/Reinforced_IR/data_generation/prompts/generate_prompts.py	
read	research/Reinforced_IR/data_generation/prompts/get_prompts.py	
read	research/Reinforced_IR/data_generation/prompts/hyde_prompts.py	
read	research/Reinforced_IR/data_generation/prompts/teacher_prompts.py	
read	research/Reinforced_IR/data_generation/prompts/train_prompts.py	
read	research/Reinforced_IR/data_generation/utils.py	
read	research/Reinforced_IR/finetune/generator/save_tokenizer.py	
read	research/Reinforced_IR/finetune/generator/update_file.py	
read	research/Reinforced_IR/finetune/retriever/arguments.py	
read	research/Reinforced_IR/finetune/retriever/dataset.py	
read	research/Reinforced_IR/finetune/retriever/modeling.py	
read	research/Reinforced_IR/finetune/retriever/run.py	
read	research/Reinforced_IR/finetune/retriever/runner.py	
read	research/Reinforced_IR/finetune/retriever/trainer.py	
read	research/Reinforced_IR/finetune/stage1.json	
read	research/Reinforced_IR/inference/agent/__init__.py	
read	research/Reinforced_IR/inference/agent/gpt.py	
read	research/Reinforced_IR/inference/agent/vllm.py	
read	research/Reinforced_IR/inference/agent/vllm_instruct.py	
read	research/Reinforced_IR/inference/ir_model.py	
read	research/Reinforced_IR/inference/multi.py	
read	research/Reinforced_IR/inference/test.py	
read	research/baai_general_embedding/__init__.py	
read	research/baai_general_embedding/finetune/__init__.py	
read	research/baai_general_embedding/finetune/arguments.py	
read	research/baai_general_embedding/finetune/data.py	
read	research/baai_general_embedding/finetune/eval_msmarco.py	
read	research/baai_general_embedding/finetune/hn_mine.py	
read	research/baai_general_embedding/finetune/modeling.py	
read	research/baai_general_embedding/finetune/run.py	
read	research/baai_general_embedding/finetune/trainer.py	
read	research/baai_general_embedding/retromae_pretrain/__init__.py	
read	research/baai_general_embedding/retromae_pretrain/arguments.py	
read	research/baai_general_embedding/retromae_pretrain/data.py	
read	research/baai_general_embedding/retromae_pretrain/enhancedDecoder.py	
read	research/baai_general_embedding/retromae_pretrain/modeling.py	
read	research/baai_general_embedding/retromae_pretrain/run.py	
read	research/baai_general_embedding/retromae_pretrain/trainer.py	
read	research/baai_general_embedding/retromae_pretrain/utils.py	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/AmazonCounterfac...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/AmazonPolarityCla...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/AmazonReviewsCl...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/ArguAna.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/ArxivClusteringP2...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/ArxivClusteringS2...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/AskUbuntuDupQue...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/BIOSSES.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/Banking77Classific...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/BiorxivClusteringP...	

Event	Path or command	Hash
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/BiorxivClusteringS...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/CQADupstackRetri...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/ClimateFEVER.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/DBPedia.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/EmotionClassificati...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/FEVER.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/FiQA2018.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/HotpotQA.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/ImdbClassification....	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/MSMARCO.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/MTOPDomainClas...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/MTOPIntentClassif...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/MassiveIntentClass...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/MassiveScenarioCl...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/MedrxivClustering...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/MedrxivClustering...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/MindSmallReranki...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/NFCorpus.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/NQ.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/QuoraRetrieval.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/RedditClustering.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/RedditClusteringP2...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/SCIDOCs.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/SICK-R.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/STS12.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/STS13.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/STS14.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/STS15.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/STS16.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/STS17.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/STS22.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/STSBenchmark.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/SciDocsRR.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/SciFact.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/SprintDuplicateQue...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/StackExchangeClus...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/StackExchangeClus...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/StackOverflowDup...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/SummEval.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/TRECCOVID.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/Touche2020.json	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/ToxicConversations...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/TweetSentimentExt...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/TwentyNewsgroups...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/TwitterSemEval201...	
read	research/llm_dense_retriever/examples/bge-en-icl/MTEB/TwitterURLCorpus...	
read	research/llm_dense_retriever/finetune/arguments.py	
read	research/llm_dense_retriever/finetune/data.py	
read	research/llm_dense_retriever/finetune/load_model.py	
read	research/llm_dense_retriever/finetune/modeling.py	

Event	Path or command	Hash
read	research/llm_dense_retriever/finetune/run.py	
read	research/llm_dense_retriever/finetune/trainer.py	
read	research/llm_embedder/data/deepspeed/stage0.json	
read	research/llm_embedder/data/deepspeed/stage2-offload.json	
read	research/llm_embedder/data/deepspeed/stage2.json	
read	research/llm_embedder/data/deepspeed/stage3-offload-all.json	
read	research/llm_embedder/data/deepspeed/stage3-offload-optim.json	
read	research/llm_embedder/data/deepspeed/stage3.json	
read	research/llm_embedder/data/toy/chat.json	
read	research/llm_embedder/data/toy/convsearch.json	
read	research/llm_embedder/data/toy/icl.json	
read	research/llm_embedder/data/toy/lrlm.json	
read	research/llm_embedder/data/toy/qa.json	
read	research/llm_embedder/data/toy/tool.json	
read	research/llm_embedder/environment.yaml	
read	research/llm_embedder/evaluation/__init__.py	
read	research/llm_embedder/evaluation/eval_icl.py	
read	research/llm_embedder/evaluation/eval_lrlm.py	
read	research/llm_embedder/evaluation/eval_mmlu.py	
read	research/llm_embedder/evaluation/eval_msc.py	
read	research/llm_embedder/evaluation/eval_popqa.py	
read	research/llm_embedder/evaluation/eval_qa.py	
read	research/llm_embedder/evaluation/eval_qrecc.py	
read	research/llm_embedder/evaluation/eval_retrieval.py	
read	research/llm_embedder/evaluation/eval_tool.py	
read	research/llm_embedder/evaluation/icl_utils.py	
read	research/llm_embedder/run_dense.py	
read	research/llm_embedder/run_lm_score.py	
read	research/llm_embedder/run_ranker.py	
read	research/llm_embedder/scripts/llm-embedder.sh	
read	research/llm_embedder/scripts/ours2st.py	
read	research/llm_embedder/src/__init__.py	
read	research/llm_embedder/src/lm/__init__.py	
read	research/llm_embedder/src/lm/args.py	
read	research/llm_embedder/src/lm/modeling_lm.py	
read	research/llm_embedder/src/lm/modeling_srlm.py	
read	research/llm_embedder/src/retrieval/__init__.py	
read	research/llm_embedder/src/retrieval/args.py	
read	research/llm_embedder/src/retrieval/data.py	
read	research/llm_embedder/src/retrieval/evalnq.py	
read	research/llm_embedder/src/retrieval/metrics.py	
read	research/llm_embedder/src/retrieval/modeling_bm25.py	
read	research/llm_embedder/src/retrieval/modeling_dense.py	
read	research/llm_embedder/src/retrieval/modeling_ranker.py	
read	research/llm_embedder/src/retrieval/modeling_unified.py	
read	research/llm_embedder/src/retrieval/trainer.py	
read	research/llm_embedder/src/utils/__init__.py	
read	research/llm_embedder/src/utils/llama_patch.py	
read	research/llm_embedder/src/utils/util.py	
read	research/llm_reranker/__init__.py	

Event	Path or command	Hash
read	research/llm_reranker/evaluate.py	
read	research/llm_reranker/finetune_for_instruction/__init__.py	
read	research/llm_reranker/finetune_for_instruction/arguments.py	
read	research/llm_reranker/finetune_for_instruction/data.py	
read	research/llm_reranker/finetune_for_instruction/load_model.py	
read	research/llm_reranker/finetune_for_instruction/modeling.py	
read	research/llm_reranker/finetune_for_instruction/run.py	
read	research/llm_reranker/finetune_for_instruction/trainer.py	
read	research/llm_reranker/finetune_for_layerwise/__init__.py	
read	research/llm_reranker/finetune_for_layerwise/arguments.py	
read	research/llm_reranker/finetune_for_layerwise/configuration_minicpm_rerank...	
read	research/llm_reranker/finetune_for_layerwise/data.py	
read	research/llm_reranker/finetune_for_layerwise/load_model.py	
read	research/llm_reranker/finetune_for_layerwise/modeling.py	
read	research/llm_reranker/finetune_for_layerwise/modeling_minicpm_reranker.py	
read	research/llm_reranker/finetune_for_layerwise/run.py	
read	research/llm_reranker/finetune_for_layerwise/trainer.py	
read	research/llm_reranker/merge/__init__.py	
read	research/llm_reranker/merge/configuration_minicpm_reranker.py	
read	research/llm_reranker/merge/merge_base_model.py	
read	research/llm_reranker/merge/merge_layerwise_model_from_finetuned_model...	
read	research/llm_reranker/merge/merge_layerwise_model_from_raw_model.py	
read	research/llm_reranker/merge/modeling_minicpm_reranker.py	
read	research/llm_reranker/stage1.json	
read	research/old-examples/finetune/ds_config.json	
read	research/old-examples/finetune/toy_evaluation_data/toy_corpus.json	
read	research/old-examples/finetune/toy_evaluation_data/toy_query.json	
read	research/old-examples/pretrain/retromae_pretrain/__init__.py	
read	research/old-examples/pretrain/retromae_pretrain/arguments.py	
read	research/old-examples/pretrain/retromae_pretrain/data.py	
read	research/old-examples/pretrain/retromae_pretrain/enhancedDecoder.py	
read	research/old-examples/pretrain/retromae_pretrain/modeling.py	
read	research/old-examples/pretrain/retromae_pretrain/run.py	
read	research/old-examples/pretrain/retromae_pretrain/trainer.py	
read	research/old-examples/pretrain/retromae_pretrain/utils.py	
read	research/old-examples/reranker/ds_config.json	
read	research/old-examples/search_demo/__init__.py	
read	research/old-examples/search_demo/arguments.py	
read	research/old-examples/search_demo/pre_process.py	
read	research/old-examples/search_demo/run.py	
read	research/old-examples/search_demo/tool.py	
read	research/old-examples/unified_finetune/unified_finetune_bge-m3_exmaple.sh	
read	research/reranker/__init__.py	
read	research/reranker/arguments.py	
read	research/reranker/data.py	
read	research/reranker/modeling.py	
read	research/reranker/run.py	
read	research/reranker/trainer.py	
read	research/visual_bge/__init__.py	
read	research/visual_bge/setup.py	

Event	Path or command	Hash
read	research/visual_bge/visual_bge/eva_clip/__init__.py	
read	research/visual_bge/visual_bge/eva_clip/constants.py	
read	research/visual_bge/visual_bge/eva_clip/eva_vit_model.py	
read	research/visual_bge/visual_bge/eva_clip/factory.py	
read	research/visual_bge/visual_bge/eva_clip/hf_configs.py	
read	research/visual_bge/visual_bge/eva_clip/hf_model.py	
read	research/visual_bge/visual_bge/eva_clip/loss.py	
read	research/visual_bge/visual_bge/eva_clip/model.py	
read	research/visual_bge/visual_bge/eva_clip/model_configs/EVA01-CLIP-B-16.j...	
read	research/visual_bge/visual_bge/eva_clip/model_configs/EVA01-CLIP-g-14-p...	
read	research/visual_bge/visual_bge/eva_clip/model_configs/EVA01-CLIP-g-14.js...	
read	research/visual_bge/visual_bge/eva_clip/model_configs/EVA02-CLIP-B-16.j...	
read	research/visual_bge/visual_bge/eva_clip/model_configs/EVA02-CLIP-L-14-...	
read	research/visual_bge/visual_bge/eva_clip/model_configs/EVA02-CLIP-L-14.j...	
read	research/visual_bge/visual_bge/eva_clip/model_configs/EVA02-CLIP-bigE-1...	
read	research/visual_bge/visual_bge/eva_clip/model_configs/EVA02-CLIP-bigE-1...	
read	research/visual_bge/visual_bge/eva_clip/modified_resnet.py	
read	research/visual_bge/visual_bge/eva_clip/openai.py	
read	research/visual_bge/visual_bge/eva_clip/pretrained.py	
read	research/visual_bge/visual_bge/eva_clip/rope.py	
read	research/visual_bge/visual_bge/eva_clip/timm_model.py	
read	research/visual_bge/visual_bge/eva_clip/tokenizer.py	
read	research/visual_bge/visual_bge/eva_clip/transform.py	
read	research/visual_bge/visual_bge/eva_clip/transformer.py	
read	research/visual_bge/visual_bge/eva_clip/utils.py	
read	research/visual_bge/visual_bge/modeling.py	
read	scripts/add_reranker_score.py	
read	scripts/hn_mine.py	
read	scripts/split_data_by_length.py	
read	setup.py	
read	tests/conftest.py	
read	tests/test_finetune_trainer_compat.py	
read	tests/test_imports_v5.py	
read	tests/test_infer_embedder_basic.py	
read	tests/test_infer_reranker_basic.py	
read	tests/test_reranker_tokenizer_compat.py	
read	tests/test_tokenizer_pad_compat.py	
process	tail -5	
process	grep -vE it/s\) s/it\]	
process	python -m FlagEmbedding.evaluation.beir --eval_name beir --dataset_dir ./bei...	
process	python - ./beir/results-1791667908.md	

C Run history

Invocation 1, OK, 2 minutes 17 seconds, 34 output lines, started 2026-10-10T21:31:48

```
metric_hash 3d4d1bca67e6aea5782f5f1c4942fb093d22ca31e069292577023ba6c01c95b6
run_digest  999710c25be2fa28f0869b2b73748b6481e6be521c2ff3a712949ef2991fb125
anchored    at run end
```

D Raw seal fields and hashes

Seal

```
data_hash          6cdf0f4b58cd2acc903e460539b4470551fcb4015ee4c949577760b25e083eeb
signed_message_hash  cf735c7ceca6e4e268bcb6a8b1e13a61f160d8cc24eb75d85c6be9e02939d3cd
nonce             7c288e287669cf1e3f2fe54c06188050
signed_at         2026-10-10T21:34:06.854044+00:00
sealed_at         2026-10-10T21:34:06.924427617Z
checkout_bundle   5042560c5889f38755b55d7c6cfe7b4689a2f3fe71b969abf58ab0cd5f56c167
```

Signature (base64)

```
XMwv6G1xt8Fb12wLaTs2s1sH+CPtWfautsHuqhJBYkKsXgk7YilugfzkMCzVpN6yyuuagGSx3vQJmiHYHGVuLVX1K
460dXtik9YwK4b3KT5GrowthD9IJBizMMJNKAT5ovt0vq1qc5AQdYVNBs/vr/PsXt3avZtMNEzDKhCHCeISFhHZU+
kRu6adJuyd9y3fB0GjfkvI1walb4KMYMcVHPsR619l0KB8Ldf8pK1I4LwJWuv4z+/XP+uF/CQKdQcwjzFWGV3C1f
4Jf8fR7eYcCobAbLOXfCH0mV1tRqs3mBjp6wZpiqsFQT4KSnd6sKE+X0MdIH5Ub8XBkGnXCX357NOQIkj2LSFrwI
QIAh0NoXaqxVDL4y0zBFE7gz9FJwxtzGkzuPC8/+5X+4tEcglWlQzEd0w0dZ8Gq6JgGj4lJYnf77hveuD/BRhQoI
32AJS9It2EQR3aDtuvCQLE4bP3h+pm4dE9s1+iL6SiY4JhRDw4K50hqsESQFsLhxvli6U77UkV8BklBP9RozM4R
oa6LtZUCzY7v202VBQ2Wc9HW3x9adp6v798uq7+0ZsPMKsZUuQjgqNLKscSgDhVooSV7rhWQkgrC41eow6CYr2UR
TlJRGDzn4cZ2HsqCVri3NIJfBcm2lZ1E/QEXGV7QKMGGWj+ChhI9IX7Bhgkxe8qnCk=
```

Public key

```
-----BEGIN PUBLIC KEY-----
MIICIjANBgkqhkiG9w0BAQEFAAOCAg8AMIICCGKCAgEA1QL3YyMgeShx8IhTC7jb
sM0w2BnRXgsBn3+SMXKjtwHATqdekmlP1cjayJxD5fcProPPCqp/LouFz5CUZzRi
6+8FTv70dHuIz5A4LAT4vcgwP+iWscPc3HzpmjpsKbTm0emqgp6RB6GNNpXyA5X
7qU95EFEEisX/GfoS9ToxtqPBwCcVWSPBX8efec4TC58m96Fsp4mC8KICeadbIbHN
av0JjdTJ//CM0WZSIbdzE6qvEbNfcqDB5tNU7oHfYvBeNLrvPU9TAqdbtozdHq+D
AhfTRuJNgWEkjwD5lb0Vhi4qlkweSOEMTKT3ye9Il5xEaJn4bku4eKqeS7VSZt3o
XbUcmr2H5mKcKsvt6bXmX6ajAmgi900Cm9QJlaQkJM6z2iITnyvDMgueJtFxQpC9
HNBPGPZ242NH8JgE6CNF7ToL9syans67u7UMgIcNgeNHNcy9b1GpU5annzP9gN2l
6HEMldkXNdKQRb1rDWyEJf3N/50YHnXXPmuf5sb8R/pxWNqtF04R5UGVV92qd2Mi
1GN7lE3mbQRbPsLL/JApDXMNzNikaFfBsQK7iKxr7vIaTeZckFZWfThcYNT7Hasg
+eE4bf/olCHBCf1VIDCKDxoehdZ0WRRcgM9iK3I/0zZdaBsgdc8WuJRmb8LPP9v
8Jap/1PWjNcNku5cdW3gHLcCAwEAAQ==
-----END PUBLIC KEY-----
```

Run 1 outputs

```
stdout 16a4c425c77c452699fcf74be0fba490af7c03ab59609a627901a4640c9eb05e
stderr e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855
metrics 3d4d1bca67e6aea5782f5f1c4942fb093d22ca31e069292577023ba6c01c95b6
digest 999710c25be2fa28f0869b2b73748b6481e6be521c2ff3a712949ef2991fb125
kv_run.sh (unchanged)
pre 5a1f3867b1a174f49ef41a6d389d5b6ca2026e6c776b517edafadb30e38d5d8a
post 5a1f3867b1a174f49ef41a6d389d5b6ca2026e6c776b517edafadb30e38d5d8a
```

E BibTeX for [1]

```
@misc{keita2026computerscienceconferencesrequire,
  title={Computer Science Conferences Should Require Nonrepudiable Experimental Results},
  author={Mamadou K. Keita and Christopher Homan},
  year={2026},
  eprint={2605.08586},
  archivePrefix={arXiv},
  primaryClass={cs.CR},
  url={https://arxiv.org/abs/2605.08586},
}
```