

RAG Evaluation Report

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Executive Summary

This report compares 18 RAG techniques. The top performing technique based on overall metrics is **Rsr Rag**.

Technique	Correctness	Faithfulness	Completeness	Relevancy	Time (s)
Rsr Rag	0.95	1.00	0.88	1.00	124.34
Dartboard Rag	0.93	0.99	0.87	1.00	115.87
Semantic Chunking Rag	0.91	1.00	0.88	0.98	131.33
Reranking Rag	0.91	0.98	0.87	1.00	110.01
Hierarchical Indices Rag	0.87	0.98	0.82	1.00	110.55
Adaptive Retrieval Rag	0.86	0.93	0.83	1.00	101.93
Fusion Retrieval Rag	0.85	0.97	0.83	0.97	111.08
Hyde Rag	0.85	0.98	0.83	1.00	112.95
Simple Rag	0.85	1.00	0.83	1.00	100.91
Contextual Compression Rag	0.85	0.97	0.82	1.00	100.93
Document Augmentation Rag	0.85	0.97	0.80	1.00	119.69
Context Chunk Rag	0.83	0.97	0.80	1.00	104.82
Context Enrichment Rag	0.83	1.00	0.82	1.00	107.63
Reliable Rag	0.80	0.87	0.77	0.93	109.88
Query Transform Rag	0.72	1.00	0.67	0.87	110.16
Hyper Rag	0.61	0.98	0.67	1.00	126.91
Proposition Chunk Rag	0.53	1.00	0.55	0.95	89.42
Explainable Retrieval Rag	0.24	0.73	0.22	0.67	85.91

Winning Technique Analysis: Rsr Rag

Case #1

Question:

What is the definition of a "child" in these rules?

Model Answer:

In these rules, a "child" is defined as any person below the age of eighteen years.

Correctness: 1.0 (PASS) | **Faithfulness:** 1.0 (PASS) | **Completeness:** 1.0 (PASS) | **Relevancy:** 1.0 (PASS)

Case #2

Question:

What does "online real money game" mean?

Model Answer:

An "online real money game" means an online game where a user makes a deposit in cash or kind with the expectation of earning winnings on that deposit. In this context, "winnings" refers to any prize, in cash or kind, which is distributed or intended to be distributed to a user of the online game based on the performance of the user and in accordance with the rules of such online game.

Correctness: 1.0 (PASS) | **Faithfulness:** 1.0 (PASS) | **Completeness:** 1.0 (PASS) | **Relevancy:** 1.0 (PASS)

Case #3

Question:

Within what time must an intermediary remove/disable unlawful information after "actual knowledge"?

Model Answer:

An intermediary must remove or disable access to unlawful information within thirty-six hours of receiving actual knowledge of such information.

Correctness: 1.0 (PASS) | **Faithfulness:** 1.0 (PASS) | **Completeness:** 0.75 (PASS) | **Relevancy:** 1.0 (PASS)

Case #4

Question:

What are the two ways “actual knowledge” can arise (as per Rule 3(1)(d))?

Model Answer:

Actual knowledge can arise in the following two ways as per Rule 3(1)(d): 1. In the form of an order by a court of competent jurisdiction. 2. On being notified by the Appropriate Government or its agency under clause (b) of sub-section (3) of section 79 of the Act.

Correctness: 0.7 (FAIL) | Faithfulness: 1.0 (PASS) | Completeness: 0.75 (PASS) | Relevancy: 1.0 (PASS)

Case #5

Question:

What are the content rating categories for online curated content in the Appendix?

Model Answer:

The content rating categories for online curated content in the Appendix are as follows: (a) "U" rating: Suitable for children as well as people of all ages. (b) "U/A 7+" rating: Suitable for persons aged 7 years and above, can be viewed by a person under the age of 7 years with parental guidance. (c) "U/A 13+" rating: Suitable for persons aged 13 years and above, can be viewed by a person under the age of 13 years with parental guidance. (d) "U/A 16+" rating: Suitable for persons aged 16 years and above, can be viewed by a person under the age of 16 years with parental guidance. (e) "A" rating: Restricted to adults.

Correctness: 1.0 (PASS) | Faithfulness: 1.0 (PASS) | Completeness: 1.0 (PASS) | Relevancy: 1.0 (PASS)

Case #6

Question:

By when must an intermediary acknowledge and resolve a complaint handled by its Grievance Officer (Rule 3(2)(a)(i))?

Model Answer:

An intermediary must acknowledge a complaint within twenty-four hours and resolve such complaint within a period of fifteen days from the date of its receipt. For complaints related to the removal of information or communication links, they must be acted upon as expeditiously as possible and resolved within seventy-two hours of reporting.

Correctness: 0.7 (FAIL) | Faithfulness: 1.0 (PASS) | Completeness: 1.0 (PASS) | Relevancy: 1.0 (PASS)

Case #7

Question:

What is the timeline to appeal to the Grievance Appellate Committee, and how quickly should it be resolved?

Model Answer:

A person aggrieved by a decision of the Grievance Officer may appeal to the Grievance Appellate Committee within thirty days from the date of receipt of communication from the Grievance Officer. The Grievance Appellate Committee should endeavor to resolve the appeal within thirty calendar days from the date of receipt of the appeal.

Correctness: 1.0 (PASS) | **Faithfulness:** 1.0 (PASS) | **Completeness:** 0.75 (PASS) | **Relevancy:** 1.0 (PASS)

Case #8

Question:

List the minimum criteria for an entity to apply to be designated as an “online gaming self-regulatory body” (Rule 4A(2)).

Model Answer:

The minimum criteria for an entity to apply to be designated as an “online gaming self-regulatory body” under Rule 4A(2) are as follows: (a) The entity must be a company registered under section 8 of the Companies Act, 2013. (b) Its membership must be representative of the gaming industry. (c) Its members must have been offering and promoting online games in a responsible manner. (d) Its Board of Directors must comprise individuals of repute without conflicts of interest, possessing special knowledge or practical experience suitable for the functions of the self-regulatory body, including: (i) An individual with special knowledge or practical experience in the online gaming industry. (ii) An individual with experience in promoting the interests of users of online games. (iii) An educationist. (iv) An expert in psychology, mental health, or a relevant field. (v) An individual with special knowledge or practical experience in information and communications technology. (vi) An individual involved in child rights protection. (vii) An individual with practical experience in public policy, public administration, law enforcement, public finance, or a relevant field, nominated by the Ministry. (viii) Other individuals appointed with the Ministry's prior approval. (e) The entity's memorandum and articles of association must include provisions for: (i) Performing its functions free from conflict of interest and at arm's length from its members. (ii) Disclosure and accountability of its members regarding the online games verified by the body. (iii) Clear criteria for accepting and continuing membership, and for revoking or suspending membership after giving an opportunity to be heard. (iv) Requirement for amendments to the memorandum and articles to be approved by the Ministry. (f) The entity must have sufficient capacity, including financial capacity, to perform its functions as an online gaming self-regulatory body.

Correctness: 1.0 (PASS) | **Faithfulness:** 1.0 (PASS) | **Completeness:** 1.0 (PASS) | **Relevancy:** 1.0 (PASS)

Case #9

Question:

Before accepting any deposit for a permissible online real money game, what must the online gaming intermediary do?

Model Answer:

Before accepting any deposit in cash or kind from any user for a permissible online real money game, the online gaming intermediary must identify such user and verify their identity. The procedure required for identification and verification must follow the guidelines set by an entity regulated by the Reserve Bank of India for the commencement of an account-based relationship.

Correctness: 1.0 (PASS) | Faithfulness: 1.0 (PASS) | Completeness: 0.75 (PASS) | Relevancy: 1.0 (PASS)

Case #10

Question:

What is the three-tier structure for ensuring adherence to the Code of Ethics for publishers (Part III)?

Model Answer:

The three-tier structure for ensuring adherence to the Code of Ethics for publishers is as follows: 1. **Level I** - Self-regulation by the publishers. 2. **Level II** - Self-regulation by the self-regulating bodies of the publishers. 3. **Level III** - Oversight mechanism by the Central Government.

Correctness: 1.0 (PASS) | Faithfulness: 1.0 (PASS) | Completeness: 1.0 (PASS) | Relevancy: 1.0 (PASS)

Case #11

Question:

Scenario: A user's grievance against an intermediary is not resolved in time. What appeal route exists and what are the key timing + process requirements?

Model Answer:

If a user's grievance against an intermediary is not resolved within the specified time, the user may appeal to the Grievance Appellate Committee. The key timing and process requirements are as follows: 1. **Timeframe for Appeal**: The user must prefer an appeal to the Grievance Appellate Committee within **thirty days** from the date of receipt of communication from the Grievance Officer regarding the grievance. 2. **Resolution Timeline**: The Grievance Appellate Committee is required to deal with the appeal expeditiously and make an endeavor to resolve it within **thirty calendar days** from the date of receipt of the appeal. 3. **Process**: The appeal process is conducted through digital mode, and the Grievance Appellate Committee may seek assistance from qualified individuals if necessary. 4. **Compliance**: Every order passed by the Grievance Appellate Committee must be complied with by the intermediary, and a report of compliance should be uploaded on its website.

Correctness: 1.0 (PASS) | Faithfulness: 1.0 (PASS) | Completeness: 0.75 (PASS) | Relevancy: 1.0 (PASS)

Case #12

Question:

Under Rule 3(1)(d), if the government wants an intermediary to remove unlawful information without a court order, what must the written intimation include and who can issue it?

Model Answer:

Under Rule 3(1)(d), if the government wants an intermediary to remove unlawful information without a court order, the written intimation must include: 1. The legal basis and statutory provision invoked. 2. The nature of the unlawful act. 3. The specific uniform resource locator, identifier, or other electronic location of the information, data, or communication link required to be removed or disabled. The intimation can be issued by an officer authorized for this purpose by the Appropriate Government or its agency, who must be not below the rank of Joint Secretary or an officer equivalent in rank. If the intimation is to be issued by the police administration, the authorized officer must not be below the rank of Deputy Inspector General of Police, specifically authorized by the Appropriate Government.

Correctness: 0.9 (PASS) | Faithfulness: 1.0 (PASS) | Completeness: 0.75 (PASS) | Relevancy: 1.0 (PASS)

Case #13

Question:

What actions can a self-regulating body (Level II) issue after disposing a grievance/appeal, and when can it refer content to the Ministry?

Model Answer:

A self-regulating body (Level II) can issue the following actions after disposing of a grievance or appeal: 1. Warning, censuring, admonishing, or reprimanding the publisher. 2. Requiring an apology from the publisher. 3. Requiring the publisher to include a warning card or a disclaimer. 4. In the case of online curated content, directing the publisher to: - Reclassify ratings of relevant content. - Make appropriate modifications in the content descriptor, age classification, and access control measures. - Edit the synopsis of relevant content. 5. If the self-regulating body is satisfied that there is a need to delete or modify content to prevent incitement to the commission of a cognizable offence relating to public order, or for reasons enumerated in sub-section (1) of section 69A of the Act, it may refer such content to the Ministry for consideration by the Oversight Mechanism for appropriate action. The self-regulating body can refer content to the Ministry when it believes that action is necessary to prevent incitement to a cognizable offence or for other specified reasons under section 69A of the Act.

Correctness: 1.0 (PASS) | **Faithfulness:** 1.0 (PASS) | **Completeness:** 1.0 (PASS) | **Relevancy:** 1.0 (PASS)

Case #14

Question:

Explain the verification lifecycle of a permissible online real money game under Rule 4A: conditions, temporary period, and publication requirements.

Model Answer:

The verification lifecycle of a permissible online real money game under Rule 4A involves several key steps and conditions: 1. **Application for Verification**: An online gaming self-regulatory body may declare an online real money game as permissible upon an application made by its member. The body must be satisfied that: - The game does not involve wagering on any outcome. - The online gaming intermediary and the game comply with the relevant rules and laws. 2. **Initial Verification Period**: The self-regulatory body may initially rely on the information provided by the applicant for verification and can declare the game as permissible for a temporary period not exceeding three months. During this time, the body is expected to complete its inquiry. 3. **Completion of Inquiry**: The self-regulatory body must endeavor to complete the inquiry within the three-month period. Upon completion, it will either: - Declare the game as a permissible online real money game, or - Inform the applicant in writing, with reasons, if the game does not meet the requirements. 4. **Publication Requirements**: The online gaming self-regulatory body is required to: - Publish and maintain an updated list of all permissible online real money games on its website or mobile application. This list must include details such as the applicant's information, dates and period of validity of the verification, reasons for verification, and any details regarding suspension or revocation of verification. - Display a demonstrable and visible mark of verification on the online real money game, indicating that it has been verified as permissible. 5. **Ongoing Compliance**: The self-regulatory body has the authority to suspend or revoke the verification if it finds that the online real money game is not in compliance with the provisions of the rules after giving the applicant an opportunity to be heard. This lifecycle ensures that online real money games are verified for compliance and that users are informed about the legitimacy and safety of the games they are accessing.

Correctness: 1.0 (PASS) | Faithfulness: 1.0 (PASS) | Completeness: 0.75 (PASS) | Relevancy: 1.0 (PASS)

Case #15

Question:

For "A" rated online curated content, what access restrictions and verification mechanisms are required in the Appendix?

Model Answer:

For "A" rated online curated content, the following access restrictions and verification mechanisms are required: 1. **Restriction of Access**: Every publisher of online curated content providing access to "A" rated content must take all efforts to restrict access to such content by a child through the implementation of appropriate access control measures. 2. **Age Verification Mechanism**: A publisher of online curated content that makes available content classified as "A" must implement a reliable age verification mechanism for viewership of such content.

Correctness: 1.0 (PASS) | Faithfulness: 1.0 (PASS) | Completeness: 1.0 (PASS) | Relevancy: 1.0 (PASS)
