# Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"

Event Summary, Topic Summary and Article Summaries are evaluated manually on the coherence, fluency, redundancy, and coverage of salient information.

#### **Event Summary using BART model**

The event summary feature in this application works by generating multiple article summaries related to a particular entity or event and combining them into a consolidated summary.

| Coherence *  Coherence - How well the ideas in the summary logically flow together. A coherent summary should have smooth transitions between ideas and concepts that build off each other in a meaningful way. |
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| 1 star - The event summary is incoherent and disjointed, with no logical flow or connection between sentences.  |
| 2 stars - The event summary has some coherent parts but lacks overall cohesion and logical flow. Ideas do not clearly build off each other.   |
| 3 stars - The event summary is moderately coherent with some logical connections between ideas and build up of concepts. But some parts are still disjointed.   |
| 4 stars - The event summary has good coherence with logical flow and progression of ideas that clearly connect to each other.   |
| 5 stars - The event summary is highly coherent and unified, with smooth transitions between sentences and a logical build up of concepts.   |
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#### Fluency \*

Fluency - The readability and grammatical correctness of the summary. A fluent summary uses proper grammar, sentence structure, and word choice so that it reads smoothly and naturally.

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- 4 stars The event summary has good fluency overall. Most sentences flow well with good grammar, word usage and sentence structure.
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| Term-Frequency Inverse D                          | ocument Frequency  |
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| star - T | he topic | summary          | is missing               | almost a                            | II of the I                                  | key points an   | d most  | salient i   | nformation  | from t  | he source  |
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#### <u>Sequence-to-sequence + pointer generator</u>

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| 4 stars - The topic summary covers most salient information and key poin  | ts but is missing a few details.   |
| 5 stars - The topic summary comprehensively covers almost all salient inf   | ormation and key points about the event.   |
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|   |  |

### Fine-tuned T5

#### **Topic Summary**

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5 stars - The topic summary is highly coherent and unified, with smooth transitions between sentences and a logical build up of concepts.

5 stars - The article summary comprehensively covers almost all salient information and key points about the event.

#### Coherence \*

| $\bigcirc$ | 1 star - The topic summary is incoherent and disjointed, with no logical flow or connection between sentences.  |
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| $\bigcirc$ | 2 stars - The topic summary has some coherent parts but lacks overall cohesion and logical flow. Ideas do not clearly build off each other.                   |
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#### **BART**

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#### **Topic Summary**

Llama-2

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• 4 stars - The article summary covers most salient information and key points but is missing a few details.

5 stars - The article summary comprehensively covers almost all salient information and key points about the event.

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Google Forms

# Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"

Event Summary, Topic Summary and Article Summaries are evaluated manually on the coherence, fluency, redundancy, and coverage of salient information.

# **Event Summary using BART model**

The event summary feature in this application works by generating multiple article summaries related to a particular entity or event and combining them into a consolidated summary.

| Coherence *  Coherence - How well the ideas in the summary logically flow together. A coherent summary should have smooth transitions between ideas and concepts that build off each other in a meaningful way. |
|---|
| 1 star - The event summary is incoherent and disjointed, with no logical flow or connection between sentences.  |
| 2 stars - The event summary has some coherent parts but lacks overall cohesion and logical flow. Ideas do not clearly build off each other.   |
|   |

|   | 3 stars | - The event summary is moderately coherent with some logical connections between ideas and build up of concepts. But some parts are still disjointed. |
|---|---------|---|
| 0 | 4 stars | - The event summary has good coherence with logical flow and progression of ideas that clearly connect to each other.                                 |
| 0 | 5 stars | - The event summary is highly coherent and unified, with smooth transitions between sentences and a logical build up of concepts.                     |

# Fluency \*

Fluency - The readability and grammatical correctness of the summary. A fluent summary uses proper grammar, sentence structure, and word choice so that it reads smoothly and naturally.

| 0          | 1 star - The event summary is disjointed and very difficult to read fluently due to poor grammar, word usage, or sentence structure.                |
|------------|---|
| 0          | 2 stars - The event summary has some fluency issues with awkward phrases, poor word choices, and unnatural sentence structures that make it choppy. |
| 0          | 3 stars - The event summary has moderate fluency. Sentences generally read well but some parts are awkward or choppy.                               |
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| Term-Frequency Inverse Document Frequency   |   |

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The topic summary feature, works similarly to the Event summary by generating summaries of multiple articles related to a chosen topic or entity.

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# **TextRank**

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# **Latent Semantic Analysis**

# **Topic Summary**

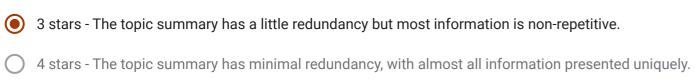
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# <u>Sequence-to-sequence + pointer generator</u>

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|  |
|  |
| Redundancy *   |

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- 5 stars The topic summary contains no redundant information and all content is unique and non-repetitive.

| 3, 2:56 PM   | Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"                                      |
|--|---|
| Coverage of Salient Information *  Coverage of salient information - How well the key points, main concepts, and the source. | important details from the original source are covered in the summary. An effective summary extracts and highlights the most salient information from |
| 1 star - The topic summary is missing almost all of the key points and m   | nost salient information from the source.   |
| ② stars - The topic summary is missing many key points and fails to cov  | er much salient event information.  |
| 3 stars - The topic summary covers some salient information but misse  | s several important key points about the event.   |
| 4 stars - The topic summary covers most salient information and key po   | ints but is missing a few details.  |
| 5 stars - The topic summary comprehensively covers almost all salient i  | nformation and key points about the event.  |
|  |   |
|  |   |
| Article Summary  The custom article summarisation feature allows users to input their own texture allows.                    | ct and generate a summary using different underlying models.  |

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| Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"   |
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|-------------|---------|-------------|---|
|-------------|---------|-------------|---|

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# **Fine-tuned T5**

# **Topic Summary**

The topic summary feature, works similarly to the Event summary by generating summaries of multiple articles related to a chosen topic or entity.

# Coherence \*

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# **BART**

# **Topic Summary**

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#### Llama-2

# **Topic Summary**

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#### **Fine-tuned Llama-2**

# **Topic Summary**

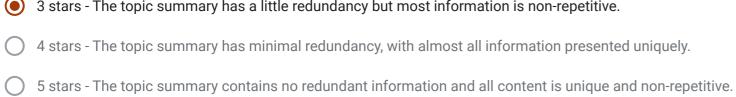
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| O 2      | 2 stars - The topic summary has some redundant sentences that repeat information unnecessarily.                      |
|----------|--|
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Google Forms

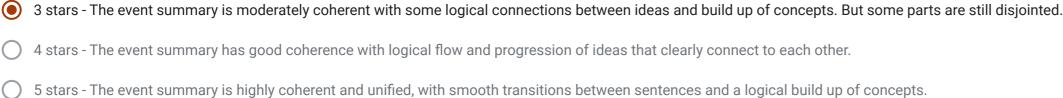
# Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"

Event Summary, Topic Summary and Article Summaries are evaluated manually on the coherence, fluency, redundancy, and coverage of salient information.

#### **Event Summary using BART model**

The event summary feature in this application works by generating multiple article summaries related to a particular entity or event and combining them into a consolidated summary.

| Coherence *  Coherence - How well the ideas in the summary logically flow together. A coherent summary should have smooth transitions between ideas and concepts that build off each other in a meaningful way. |
|---|
| 1 star - The event summary is incoherent and disjointed, with no logical flow or connection between sentences.  |
| 2 stars - The event summary has some coherent parts but lacks overall cohesion and logical flow. Ideas do not clearly build off each other.   |
|   |



#### Fluency \*

Fluency - The readability and grammatical correctness of the summary. A fluent summary uses proper grammar, sentence structure, and word choice so that it reads smoothly and naturally.

| 0          | 1 star - The event summary is disjointed and very difficult to read fluently due to poor grammar, word usage, or sentence structure.                |
|------------|---|
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# **TextRank**

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#### **Latent Semantic Analysis**

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#### <u>Sequence-to-sequence + pointer generator</u>

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<u>T5</u>

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| 5 stars - The article summary reads extremely fluently w               | with smooth, natural sentences and excellent grammar, word choice and sentence structure.                                     |  |
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| Redundancy *   |   |  |
| Dadundanay The energy of repetitive as uppercent information           | nation in the augment. A high guality augments chauld not report the same ideas or details aver and aver                      |  |

Redundancy - The amount of repetitive or unnecessary information in the summary. A high-quality summary should not repeat the same ideas or details over and over.

- 1 star The article summary contains a lot of repetitive information and redundant ideas that add no new information.
- 2 stars The article summary has some redundant sentences that repeat information unnecessarily.
- 3 stars The article summary has a little redundancy but most information is non-repetitive.
- 4 stars The article summary has minimal redundancy, with almost all information presented uniquely.
- 5 stars The article summary contains no redundant information and all content is unique and non-repetitive.

| Coverage of | Salient | Information | * |
|-------------|---------|-------------|---|
|-------------|---------|-------------|---|

- 1 star The article summary is missing almost all of the key points and most salient information from the source.
- 2 stars The article summary is missing many key points and fails to cover much salient event information.
- 3 stars The article summary covers some salient information but misses several important key points about the event.
- 4 stars The article summary covers most salient information and key points but is missing a few details.
- 5 stars The article summary comprehensively covers almost all salient information and key points about the event.

# **Fine-tuned T5**

#### **Topic Summary**

The topic summary feature, works similarly to the Event summary by generating summaries of multiple articles related to a chosen topic or entity.

#### Coherence \*

- 1 star The topic summary is incoherent and disjointed, with no logical flow or connection between sentences.
- 2 stars The topic summary has some coherent parts but lacks overall cohesion and logical flow. Ideas do not clearly build off each other.
- 3 stars The topic summary is moderately coherent with some logical connections between ideas and build up of concepts. But some parts are still disjointed.
- 4 stars The topic summary has good coherence with logical flow and progression of ideas that clearly connect to each other.
- 5 stars The topic summary is highly coherent and unified, with smooth transitions between sentences and a logical build up of concepts.

| Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"  |  |
|---|--|
| Fluency *  Fluency - The readability and grammatical correctness of the summary. A fluent summary uses proper grammar, sentence structure, and word choice so that it reads smoothly and naturally. |  |
| 1 star - The topic summary is disjointed and very difficult to read fluently due to poor grammar, word usage, or sentence structure.  |  |
| 2 stars - The topic summary has some fluency issues with awkward phrases, poor word choices, and unnatural sentence structures that make it choppy.   |  |
| 3 stars - The topic summary has moderate fluency. Sentences generally read well but some parts are awkward or choppy.   |  |
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| 4 stars - The topic summary has minimal redundancy, with almost all information presented uniquely.   |  |
|   |  |

| 23, 2:56 PM   | Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"  |
|---|---|
| Coverage of Salient Information *  Coverage of salient information - How well the ket the source. | ey points, main concepts, and important details from the original source are covered in the summary. An effective summary extracts and highlights the most salient information from |
| 1 star - The topic summary is missing almo  | ost all of the key points and most salient information from the source.   |
| 2 stars - The topic summary is missing ma   | ny key points and fails to cover much salient event information.  |
| 3 stars - The topic summary covers some s   | salient information but misses several important key points about the event.  |
| 4 stars - The topic summary covers most s   | calient information and key points but is missing a few details.  |
| <ul> <li>5 stars - The topic summary comprehensive</li> </ul>                                     | rely covers almost all salient information and key points about the event.  |
|   |   |
| Article Summary  The custom article summarisation feature allow                                   | vs users to input their own text and generate a summary using different underlying models.  |
|   |   |
| Coherence *  Coherence - How well the ideas in the summary  | logically flow together. A coherent summary should have smooth transitions between ideas and concepts that build off each other in a meaningful way.                                |
| 1 star - The article summary is incoherent a  | and disjointed, with no logical flow or connection between sentences.   |

2 stars - The article summary has some coherent parts but lacks overall cohesion and logical flow. Ideas do not clearly build off each other.

5 stars - The article summary is highly coherent and unified, with smooth transitions between sentences and a logical build up of concepts.

4 stars - The article summary has good coherence with logical flow and progression of ideas that clearly connect to each other.

3 stars - The article summary is moderately coherent with some logical connections between ideas and build up of concepts. But some parts are still disjointed.

| wanuar Evaluation of fext Summanes for Project. Event-based multi-document text summansation of flews articles   |
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| luency * luency - The readability and grammatical correctness of the summary. A fluent summary uses proper grammar, sentence structure, and word choice so that it reads smoothly and naturally. |
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| Redundancy * redundancy - The amount of repetitive or unnecessary information in the summary. A high-quality summary should not repeat the same ideas or details over and over.                  |
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| 0 | 1 star - The article summary contains a lot of repetitive information and redundant ideas that add no new information. |
|---|--|
| 0 | 2 stars - The article summary has some redundant sentences that repeat information unnecessarily.                      |
| 0 | 3 stars - The article summary has a little redundancy but most information is non-repetitive.                          |

4 stars - The article summary has minimal redundancy, with almost all information presented uniquely.

• 5 stars - The article summary contains no redundant information and all content is unique and non-repetitive.

| 23, 2:56 PM  | Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"                                   |
|--|--|
| Coverage of Salient Information *  Coverage of salient information - How well the key points, main concepts, and imp the source. | ortant details from the original source are covered in the summary. An effective summary extracts and highlights the most salient information from |
| 1 star - The article summary is missing almost all of the key points and mos   | et salient information from the source.  |
| 2 stars - The article summary is missing many key points and fails to cover  | much salient event information.  |
| 3 stars - The article summary covers some salient information but misses s   | everal important key points about the event.   |
| 4 stars - The article summary covers most salient information and key point  | es but is missing a few details.   |
| 5 stars - The article summary comprehensively covers almost all salient info   | ormation and key points about the event.   |
|  |  |
| <u>BART</u>  |  |
| Topic Summary  The topic summary feature, works similarly to the Event summary by generating                                     | summaries of multiple articles related to a chosen topic or entity.  |

## Coherence \*

- 1 star The topic summary is incoherent and disjointed, with no logical flow or connection between sentences.
- 2 stars The topic summary has some coherent parts but lacks overall cohesion and logical flow. Ideas do not clearly build off each other.
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| 9/ | 23, 2:56 PM Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"   |
|----|--|
|    | Fluency * Fluency - The readability and grammatical correctness of the summary. A fluent summary uses proper grammar, sentence structure, and word choice so that it reads smoothly and naturally. |
|    | 1 star - The topic summary is disjointed and very difficult to read fluently due to poor grammar, word usage, or sentence structure.   |
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|    |  |
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| Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"  |                  |
|---|------------------|
| Coverage of Salient Information *  Coverage of salient information - How well the key points, main concepts, and important details from the original source are covered in the summary. An effective summary extracts and highlights the most salient the source. | information from |
| 1 star - The topic summary is missing almost all of the key points and most salient information from the source.  |                  |
| 2 stars - The topic summary is missing many key points and fails to cover much salient event information.   |                  |
| 3 stars - The topic summary covers some salient information but misses several important key points about the event.  |                  |
| 4 stars - The topic summary covers most salient information and key points but is missing a few details.  |                  |
| 5 stars - The topic summary comprehensively covers almost all salient information and key points about the event.   |                  |
|   |                  |
| Article Summary The custom article summarisation feature allows users to input their own text and generate a summary using different underlying models.   |                  |

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| 1 star - The article summary is disjointed and very difficult to read fluent               | tly due to poor grammar, word usage, or sentence structure.  |  |
| 2 stars - The article summary has some fluency issues with awkward ph                      | nrases, poor word choices, and unnatural sentence structures that make it choppy.                                |  |
| <ul> <li>3 stars - The article summary has moderate fluency. Sentences generall</li> </ul> | ly read well but some parts are awkward or choppy.   |  |
| 4 stars - The article summary has good fluency overall. Most sentences                     | flow well with good grammar, word usage and sentence structure.  |  |
| 5 stars - The article summary reads extremely fluently with smooth, natu                   | ural sentences and excellent grammar, word choice and sentence structure.  |  |
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| Redundancy *   | many. A bind quality augment about don't repeat the same ideas or datails aver and aver                          |  |

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|    | 1 star - The article summary is missing almost all of the key points and most salient information from the source.  2 stars - The article summary is missing many key points and fails to cover much salient event information.  |
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|    | <u>Llama-2</u>   |

# **Topic Summary**

The topic summary feature, works similarly to the Event summary by generating summaries of multiple articles related to a chosen topic or entity.

# Coherence \*

| 0          | 1 star - The topic summary is incoherent and disjointed, with no logical flow or connection between sentences.   |
|------------|--|
| 0          | 2 stars - The topic summary has some coherent parts but lacks overall cohesion and logical flow. Ideas do not clearly build off each other.                  |
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| •          | 4 stars - The topic summary has good coherence with logical flow and progression of ideas that clearly connect to each other.                                |
| $\bigcirc$ | 5 stars - The tonic summary is highly coherent and unified with smooth transitions between sentences and a logical build up of concepts                      |

| 9/23, 2:56 PM  | Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles" |
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| 1 star - The topic summary is disjointed and very difficult to read flu              | ently due to poor grammar, word usage, or sentence structure.  |
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| 3 stars - The topic summary has moderate fluency. Sentences gene                     | rally read well but some parts are awkward or choppy.  |
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| 3, 2:56 PM Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"   |
|---|
| Fluency *  Fluency - The readability and grammatical correctness of the summary. A fluent summary uses proper grammar, sentence structure, and word choice so that it reads smoothly and naturally. |
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| 9/9 | /9/23, 2:56 PM Manual Evaluation of Text Summaries for Project "Event-based multi-document text summarisation of news articles"  |
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|     |  |

# Fine-tuned Llama-2

# **Topic Summary**

The topic summary feature, works similarly to the Event summary by generating summaries of multiple articles related to a chosen topic or entity.

5 stars - The topic summary is highly coherent and unified, with smooth transitions between sentences and a logical build up of concepts.

# Coherence \*

| $\bigcirc$ | 1 star - | The topic summary is incoherent and disjointed, with no logical flow or connection between sentences.   |
|------------|----------|---|
| 0          | 2 stars  | - The topic summary has some coherent parts but lacks overall cohesion and logical flow. Ideas do not clearly build off each other.                   |
| $\bigcirc$ | 3 stars  | - The topic summary is moderately coherent with some logical connections between ideas and build up of concepts. But some parts are still disjointed. |
| 0          | 4 stars  | - The topic summary has good coherence with logical flow and progression of ideas that clearly connect to each other.                                 |

| Wantal Evaluation of Text Summans and The Topics Event-based multi-document text summans and of news articles   |  |
|---|--|
| Fluency *  Fluency - The readability and grammatical correctness of the summary. A fluent summary uses proper grammar, sentence structure, and word choice so that it reads smoothly and naturally. |  |
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