

1. Determining News Categories

Purpose: Automatically classify news articles into categories (e.g., Technology, Health, Sports).

How It Works:

- The article's title, description, and content are sent to GPT.
- GPT determines which predefined category (e.g., *"Business"* or *"Technology"*) the article belongs to.

Prompt in code:

```
Given this news article information, categorize it into ONE of these
categories: ${CATEGORIES.join(
    ", "
)}

Title: ${mainArticle.title}
Description: ${mainArticle.description || ""}
Content: ${mainArticle.content || ""}

Return ONLY the category name, nothing else.
```

Example Prompt:

“Given this news article information, categorize it into ONE of these categories: US, World, Business, Technology, Science, Health, Sports, Lifestyle, Travel.

Title: Tesla reports record earnings

Description: Tesla achieved record earnings this quarter...

Content: Tesla's financial performance outpaced analyst expectations.

Return ONLY the category name.”

2. Improving News Titles

Purpose: Some news titles are too long, complex, or unclear. Additionally, We have to ensure that the rewritten titles do not violate copyright laws. By using GPT, I created new titles that are shorter, clearer, more engaging, and entirely original.

How It Works:

- The original title, description, and content are sent to GPT.
- GPT generates a new title that summarizes the article accurately and attractively.

Prompt in code:

Main Article Analysis Request:

```
Title: ${mainArticle.title}
Content: ${mainArticle.content || mainArticle.description}
Category: ${category}
```

Related Coverage:

```
${relatedArticlesWithContent
  .map(
    (article) => `
    - ${article.title} (${article.source})
      Content: ${article.fullContent || article.content ||
article.description}`
  )
  .join("\n")}
```

Please provide a comprehensive news analysis addressing the following elements:

1. Summary (2-3 paragraphs, max 20 sentences):
 - Who, What, When, Where, Why, and How with specific details
 - Include relevant numbers, proper nouns, and concrete examples
 - Historical context and background information
2. Multiple Perspectives:
 - Present diverse viewpoints from different news sources
 - Highlight any contrasting opinions or interpretations
 - Include expert opinions when available

3. Impact Analysis:

- Immediate effects
- Potential long-term consequences
- Who is affected and how

4. Supporting Context:

- Related historical events
- Previous developments
- Relevant statistics or data

Writing Guidelines:

- Maintain warm, accessible language while adhering to journalistic standards
- Ensure objectivity and neutrality
- Avoid sensationalism and emotional manipulation
- Use clear, concise language
- Include verified information only
- Acknowledge any limitations in available information
- End with a constructive or forward-looking perspective

Prompt example:

“

Given this news article information, create a clear, engaging, and informative title.

Original Title: Tesla reports record earnings

Description: Tesla achieved a new record in earnings this quarter...

Content: Tesla's financial performance outpaced analyst expectations.

Guidelines:

- Keep it under 100 characters
- Be accurate and factual
- Avoid clickbait
- Ensure the title is original and does not replicate the phrasing of the source

“

3. Analyzing News Content

Purpose: Provide an in-depth analysis of the news, including a summary, multiple perspectives, and the impact of the event.

How It Works:

- The article's title, content, and details of related articles are sent to GPT.
- GPT analyzes the article based on these points:
 - **Summary:** Who, What, When, Where, Why, and How.
 - **Multiple Perspectives:** Views and opinions from different sources.
 - **Impact Analysis:** Immediate and long-term effects of the event

Prompt in code:

Main Article Analysis Request:

```
Title: ${mainArticle.title}
Content: ${mainArticle.content || mainArticle.description}
Category: ${category}
```

Related Coverage:

```
${relatedArticlesWithContent
  .map(
    (article) => `
    - ${article.title} (${article.source})
      Content: ${article.fullContent || article.content ||
article.description}`
  )
  .join("\n")}
```

Please provide a comprehensive news analysis addressing the following elements:

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 - Who, What, When, Where, Why, and How with specific details

- Include relevant numbers, proper nouns, and concrete examples
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- Include verified information only
- Acknowledge any limitations in available information
- End with a constructive or forward-looking perspective

Example prompt:

“

Main Article Analysis Request:

Title: Tesla reports record earnings

Content: Tesla achieved a new record in earnings this quarter...

Related Coverage:

- Tesla's growth defies odds (Forbes): Tesla saw a surge in its financial performance...
- Elon Musk's Tesla reports record profits (BBC): Analysts were surprised by...

Please provide a comprehensive news analysis addressing:

1. Summary (Who, What, When, Where, Why, How)
2. Multiple Perspectives
3. Impact Analysis
4. Supporting Context“

4. Sentiment Analysis

Purpose: Identify the emotional tone of the news article — is it positive, negative, or neutral?

How It Works:

- The article’s summary and details are sent to GPT.
- GPT analyzes the content and provides a breakdown of positive, neutral, and negative tones as percentages.

Prompt in code:

```
Given a news article, analyze its sentiment and provide a percentage breakdown with careful consideration of specific content markers:
```

```
NEGATIVE markers (weight heavily):
```

- Deaths, accidents, disasters
- Violence, crime, conflict
- Economic losses, bankruptcies
- Environmental damage
- Social problems, discrimination
- Health crises, illnesses

```
POSITIVE markers (weight heavily):
```

- Achievements, successes, victories
- Scientific/medical breakthroughs
- Economic growth, job creation
- Environmental improvements
- Social progress, unity
- Health improvements, recoveries
- Aid, rescue, support actions

```
NEUTRAL markers:
```

- Factual statements
- Statistical reports
- Procedural updates
- Policy announcements

```
- General information

Return ONLY a JSON object with three percentage values that sum to
100:

{
  "positive": N,
  "neutral": N,
  "negative": N
}
```

5. Extracting Keywords

Purpose: Identify the most important keywords from the article title. These keywords summarize the article and help find related news.

How It Works:

- The title is sent to GPT.
- GPT extracts 2–3 essential keywords from the title.

Prompt in code:

```
Extract 2-3 most essential search terms from the news title that would yield
the best search results.

Guidelines:
- Focus on core topics, entities, or events
- Remove unnecessary words (articles, conjunctions)
- Keep proper nouns and specific terms
- For numbers or statistics, keep only if crucial to the story
- Avoid overly specific details that might limit search results

Return only the keywords separated by spaces, no punctuation.

Examples:
Input: "U.S. Senate approves $95 billion aid package for Ukraine and
Israel"
Output: Ukraine Israel aid

Input: "Tesla reports record quarterly earnings despite market
challenges"
Output: Tesla earnings record
```