

# Clickbait Classification Using ChatGPT

Session link: <https://chatgpt.com/share/9049b1b6-3bc5-451c-af4d-bfaf21ad2a73>

## I. Why Errors Happen?

If we give ChatGPT test examples, it will correctly classify all non-clickbait headlines and misclassify several clickbait ones (6 in my case).

The misclassified headlines were the follows:

- Chris Moyles Is Returning To Radio With A Breakfast Show On Radio X
- How Do You Stay Fit In College
- Tell Us Why You Take Medication For Your Mental Health
- This Web Series Is Helping Trans Teens Find Their Personal Definition Of Beauty
- 41,000 Indians Have Petitioned The Censor Board For More Gender-Sensitive Ratings
- David Bowie's Musical 'Lazarus' Showcases His Enduring Legacy

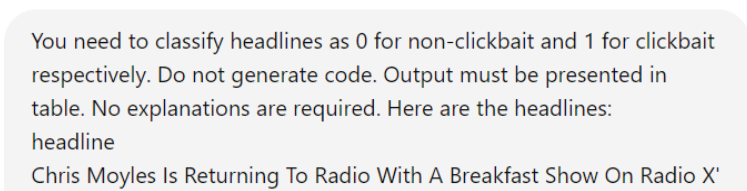
To discover the reason of this behavior, ChatGPT was asked to define the factors that could make it classify a clickbait message as non-clickbait and to provide the headlines that could be mistakenly classified as non-clickbait.

As can be seen on the picture 1A, the headlines, provided by ChatGPT, coincide with the ones it misclassified. Judging by its' answer, the factors that confuse ChatGPT are Informational Tone and Specificity. Thus, it was decided to reduce their impact on ChatGPT's decision.

## II. Approach

For the current task, zero-shot approach was used. The sequence of actions was as follows:

- 1) Give ChatGPT test examples and obtain the preliminary classification results  
The initial accuracy was 94% (6 examples were wrongly classified as non-clickbait). The head of the prompt is shown on the picture 1.



You need to classify headlines as 0 for non-clickbait and 1 for clickbait respectively. Do not generate code. Output must be presented in table. No explanations are required. Here are the headlines:  
headline  
Chris Moyles Is Returning To Radio With A Breakfast Show On Radio X'

Picture 1. The head of the first prompt (further headlines are omitted for convenience)

2) Ask ChatGPT to provide factors which could lead to misclassification

Which factors could make you classify a clickbait message as non-clickbait?

Picture 2. Prompt: Asking ChatGPT for misleading factors

The obtained factors are shown on the picture 2A.

3) Ask ChatGPT to provide headlines which, by its' opinion, might be misclassified

Which of the headlines could have been misclassified as non-clickbait?

Picture 3. Prompt: Asking ChatGPT which headlines confuse it

The headlines are presented on the picture 1A.

4) Find common factors for the provided headlines

By carefully reading ChatGPT's explanations, I found that common factors were Informational Tone and Specificity. In this case it was obvious, otherwise one could ask ChatGPT to define them.

5) Ask ChatGPT to construct an enhanced prompt w.r.t these factors

Create a prompt to classify headlines with less attention to informational tone and specificity.

Sure, here's a prompt that focuses less on informational tone and specificity, which are typical markers for non-clickbait, and more on other aspects that might indicate clickbait:

"Classify the following headlines as clickbait (1) or non-clickbait (0) based on their appeal and potential to generate curiosity or engagement:

1. 'Chris Moyles Is Returning To Radio With A Breakfast Show On Radio X'

...

Ensure to classify each headline solely based on its potential to intrigue or entice clicks, disregarding the specificity or informational nature of the content."

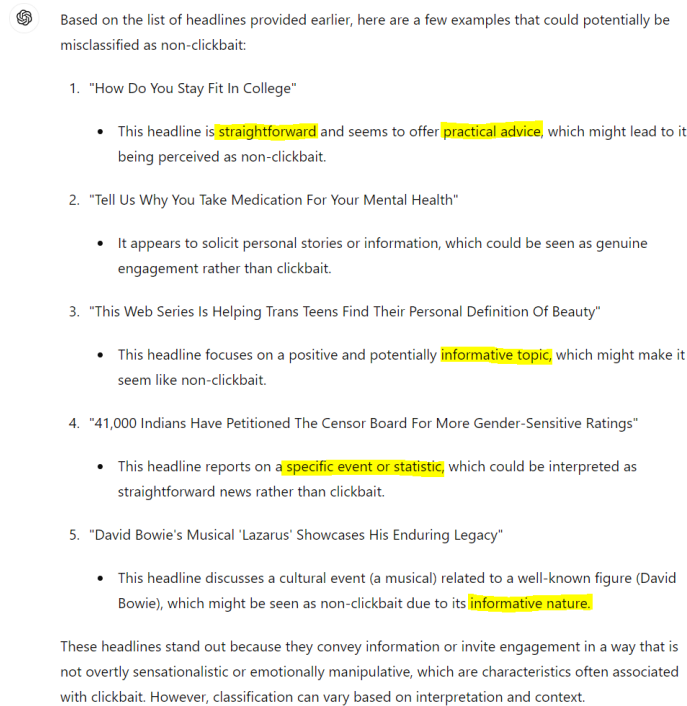
Picture 4. Asking ChatGPT to construct an enhanced prompt. Headlines are omitted for convenience

ChatGPT was asked to pay **less** attention to the found factors. It may appear counter intuitive: should not we focus **more** on these factors instead? However, it could be seen as applying feature engineering, like in any other machine learning method. If including the feature worsens the outcome, we often decide to omit it.

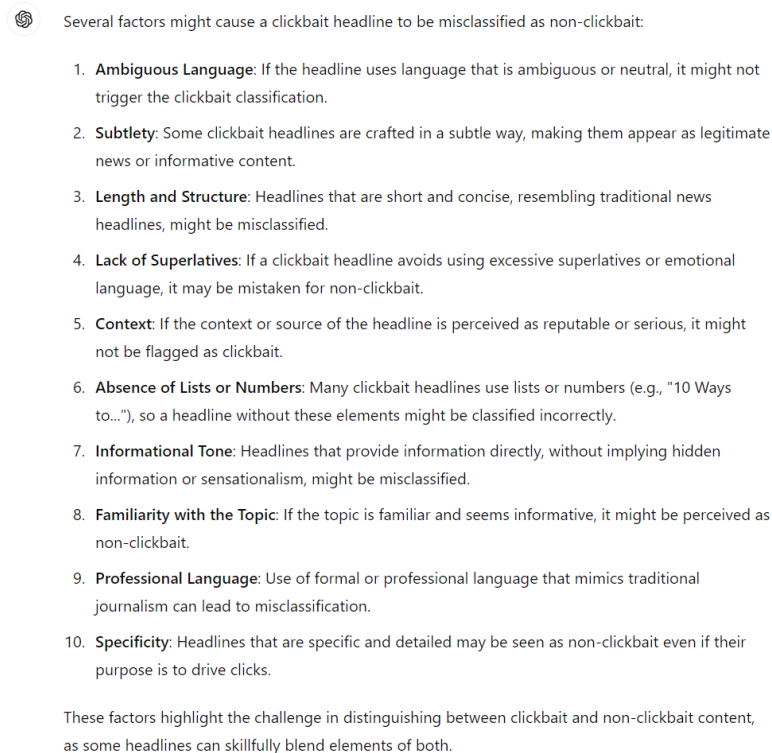
After prompting, the accuracy raised to 100%. Thus, no further steps were taken.

### III. Appendix

#### Pictures



Picture 1A. ChatGPT's answer to the following question: "Which of the headlines could have been misclassified as non-clickbait?" The key words, which point to the common misclassification factor, are highlighted in yellow.



Picture 2A. ChatGPT's answer to the following question: "Which factors could make you classify a clickbait message as non-clickbait?"