是，我是一位簡報製作顧問，可以協助您製作簡報。請問您需要協助什麼呢？

系統 請你根據以下內容幫我整理成兩頁的簡報，每一頁簡報必須包含標題、內容。

Everyone can present their interesting content and exchange ideas on a social media or forum. Undoubtedly, social media platforms and forums attract many users because they can satisfy many people's need for social interaction or entertainment. As the number of users continues to grow, social media provides a huge amount of unstructured data every day. In recent years, Raj et al [1] made a complete review of big data analysis on social media. The diversity of research topics highlights the vast amount of human behavior data posted on social media can support researchers to conduct their studies. For example, during the COVID-19 pandemic, Zhu et al [2] conducted a big data analysis of discussions related to COVID-19 on social media. They analyzed the sentiment patterns of users at the time of the outbreak. Their results can be extended to assist governments to policy development to ease the public complaint. This proves that the large amount of data posted on social media offers much flexibility and opportunities to be discovered in exploring various social issues. However, social media not only brought positive impact. In fact, verbal violence, fraud, etc., are also growing on social media. In cybercrime, stealing personal information or fraud can be clearly determined what happens. But cyberbullying is highly lethal to individuals, and is difficult to effectively punish or prevent due to its vague definition. Therefore, this research will focus on this topic. Cyberbullying can occur on social media, games, forums, and any platform with public communication function. A study of cyberbullying on social media in the United States by Kipper and Ramey [3]. They noted that cyberbullying incidents have caused serious psychological problems (such as loss of confidence and depression) to many people. This kind of bullying was considered to require government intervention. In addition, Hellfeldt's [4] study also found the same phenomenon as the above study. People who were subjected to cyberbullying showed high levels of depressive symptoms. Wachs et al [5] proposed that there may be a causality between cyberbullying and cyber hate crimes. Therefore, cyberbullying is still an important issue in society. There are several forms of bullying such as body, verbal, and text. In this study, textual cyberbullying is the main research object.

Slide 1:

Title: Big Data Analysis on Social Media

- Social media and forums attract many users
- Provide a huge amount of unstructured data
- Raj et al [1] made a complete review of big data analysis on social media
- Diversity of research topics highlights the vast amount of human behavior data
- Zhu et al [2] conducted a big data analysis of discussions related to COVID-19 on social media
- Large amount of data posted on social media offers flexibility and opportunities to explore social issues

Slide 2:

Title: Cyberbullying on Social Media

- Cyberbullying can cause serious psychological problems to many people
- Kipper and Ramey [3] noted that cyberbullying incidents require government intervention
- Hellfeldt's [4] study found that people who were subjected to cyberbullying showed high levels of depressive symptoms
- Wachs et al [5] proposed a causality between cyberbullying and cyber hate crimes
- Cyberbullying is still an important issue in society
- Textual cyberbullying is the main research object

系統 請你根據以下內容幫我整理成兩的簡報，每一頁簡報必須包含標題、內容，每一頁簡報搭配至少兩張和英標題關聯相關的圖片，圖片選用時排使用 markdown 語法 (https://source.unsplash.com/960×640/?<關鍵詞>)

The main purpose of this study is to build an effective detection model to detect factors of cyberbullying and use the proposed detection model to do big data analysis for two cyberbullying cases. Firstly, this study will define multiple factors of cyberbullying and a manual annotation corpus can be created. Then this study trains a lot of artificial intelligence models which can automatically detect cyberbullying. Manual judgments have been proposed in many text classification tasks. Defining cyberbullying factors can provide many clues to discover cyberbullying behaviors, tracking and prevention on the Internet. This study attempts to consider many important factors in cyberbullying. Therefore, a Chinese cyberbullying factor corpus with manual annotation can be created. We use many pre-trained models such as BERT [6] to encode sentences to represent the hidden features. The main cyberbullying articles will be collected from the PTT forum (https://www.ptt.cc/bbs). In addition, we also propose a big data analysis task to detect cyberbullying patterns of celebrities based on the results by the proposed BERT model. The main contributions of this study are as follows:
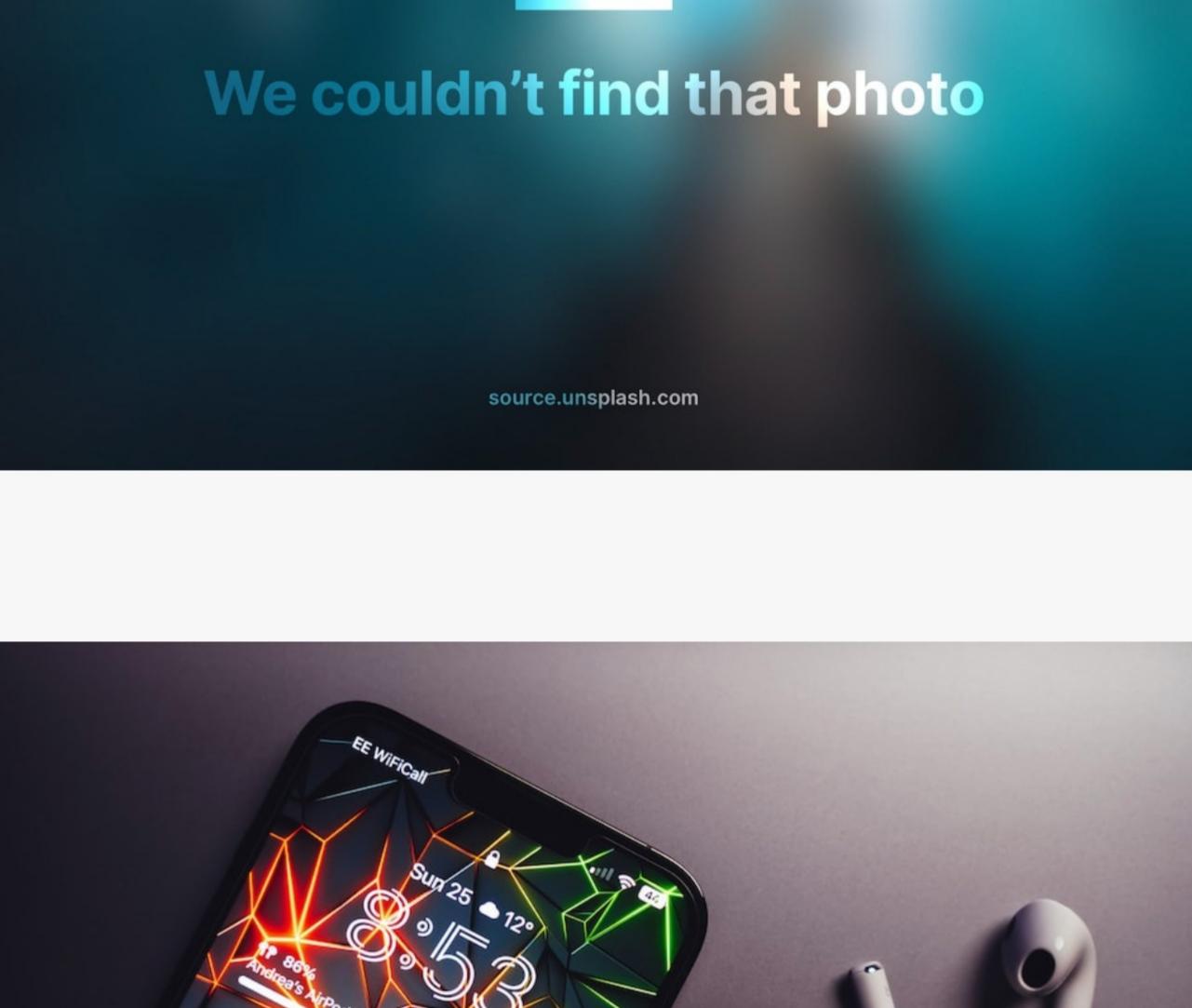• Multiple cyberbullying factors can be created by the study because there are no benchmark dataset
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about the cyberbullying factors to a classification task.
• The factor detection of cyberbullying classification can be solved by the powerful learning models such as the BERT classifier.
• The proposed cyberbullying detection model can train from the proposed corpus, and can apply to the big data analysis on the Internet for cyberbullying.
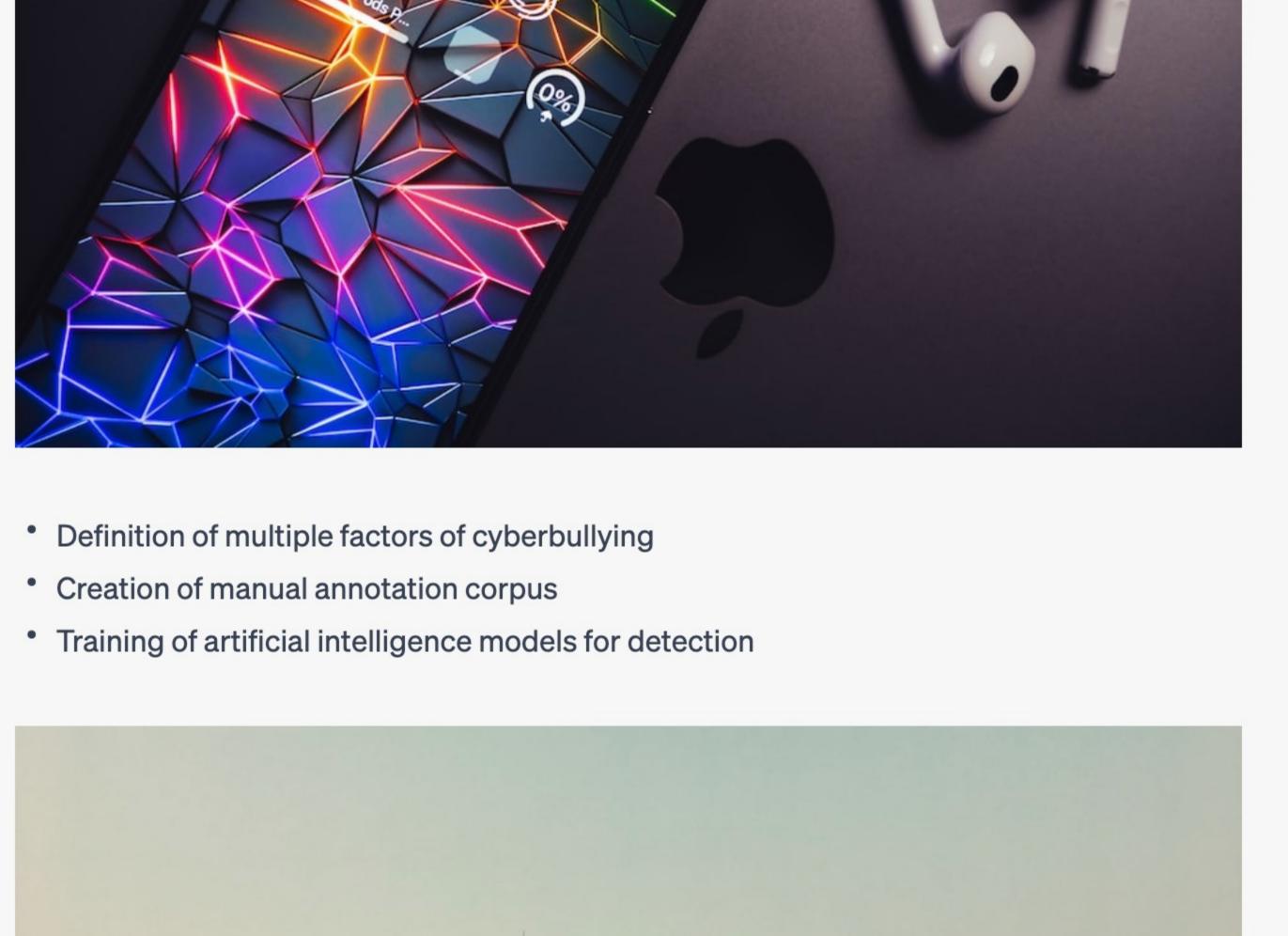

Page 1:

Building an Effective Detection Model for Cyberbullying

- Definition of multiple factors of cyberbullying
- Creation of manual annotation corpus
- Training of artificial intelligence models for detection

- Creation of a Chinese cyberbullying factor corpus with manual annotation
- Use of pre-trained models like BERT to encode sentences
- Collection of cyberbullying articles from the PTT forum

Page 2:

Big Data Analysis for Cyberbullying Patterns

- Proposal of big data analysis task to detect cyberbullying patterns of celebrities
- Use of the proposed BERT model for the analysis
- Contributions of the study:
    - Creation of multiple cyberbullying factor corpus
    - Solving factor detection of cyberbullying classification
    - Application of the proposed detection model to big data analysis on the Internet for cyberbullying.

- The proposed detection model can help with discovering cyberbullying behaviors, tracking, and prevention on the Internet.