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IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY
وكالة الجامعة للبحث العلمي والإبتكار
University Vice Presidency for Scientific Research and Innovation

ChatGPT

is one of the most famous models of artificial intelligence, a huge language model based on artificial intelligence that can create long and multilingual texts automatically and at high speed. It was developed by OpenAI and launched in November 2022.

How is ChatGPT used in scientific research?

Artificial intelligence is a recent technology that simulates human mental abilities and patterns, such as the ability to learn, conclude, search, and other things.

- ➔ It can be used in the writing process to ensure proofreading, spelling, and formatting guidelines for scientific research 🔍 : font, footnotes, and more.
- ➔ It is also a threat to scientific research ethics, 📄 especially in relation to objectivity and integrity.





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How does ChatGPT threaten scientific research?

- ➔ Fake or modified content can be produced for scientific research, which represents a threat to the credibility of scientific research and can lead to the spread of misinformation.
- ➔ Repeating errors in scientific research. ChatGPT paraphrases texts, and thus causing the spread and repetition of errors in scientific research.
- ➔ Promoting poor research by producing content that follows weak or unreliable sources will lead to a reduction in the level of scientific research in general.
- ➔ Lack of integrity and honesty of the researcher, as integrity and honesty are the most prominent ethics of the researcher.
- ➔ Stealing literature, as researchers must review the literature and refer to the research and sources on which they relied in the research work, and not rely on any data or information without verifying its source and validity.

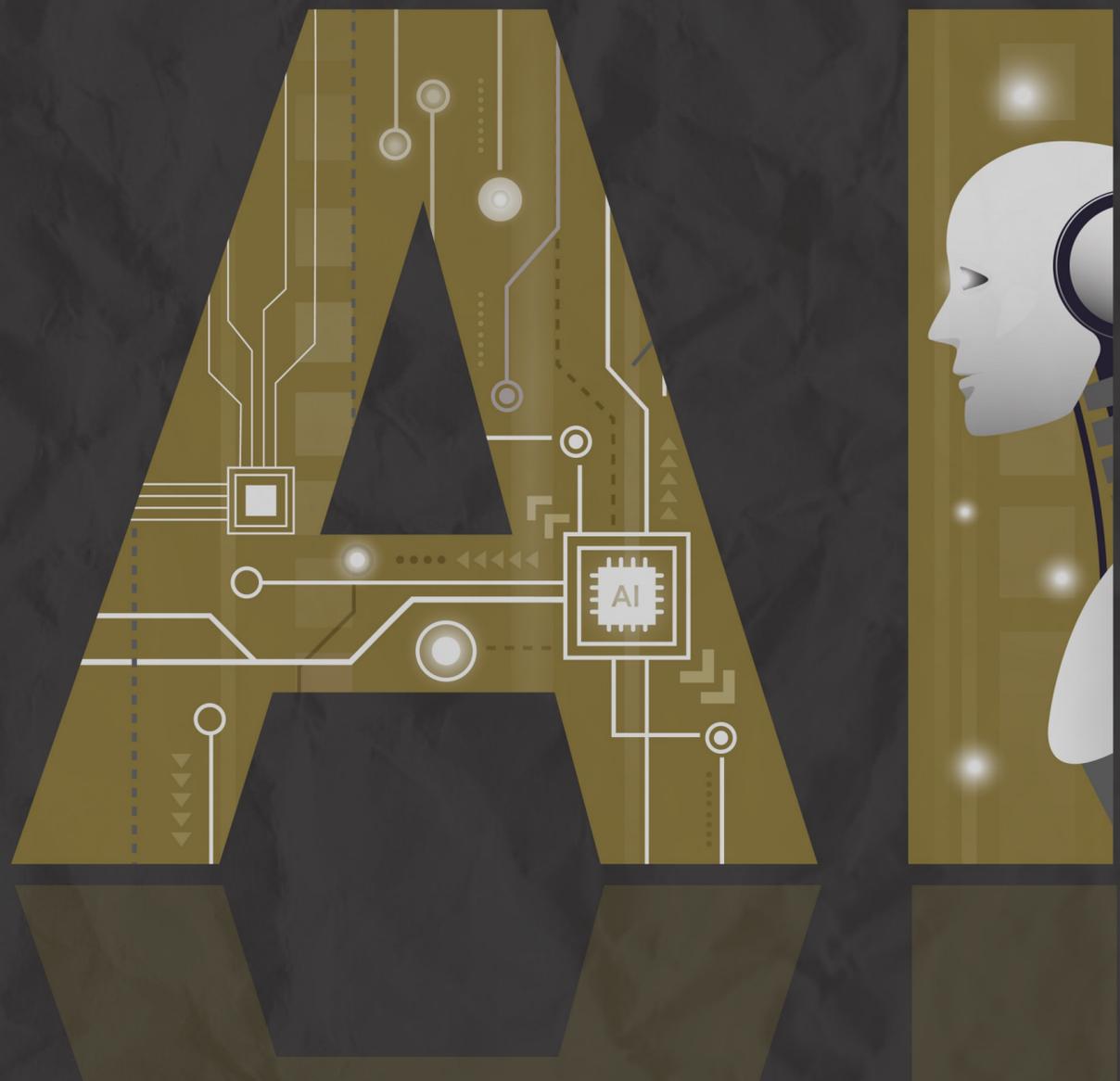


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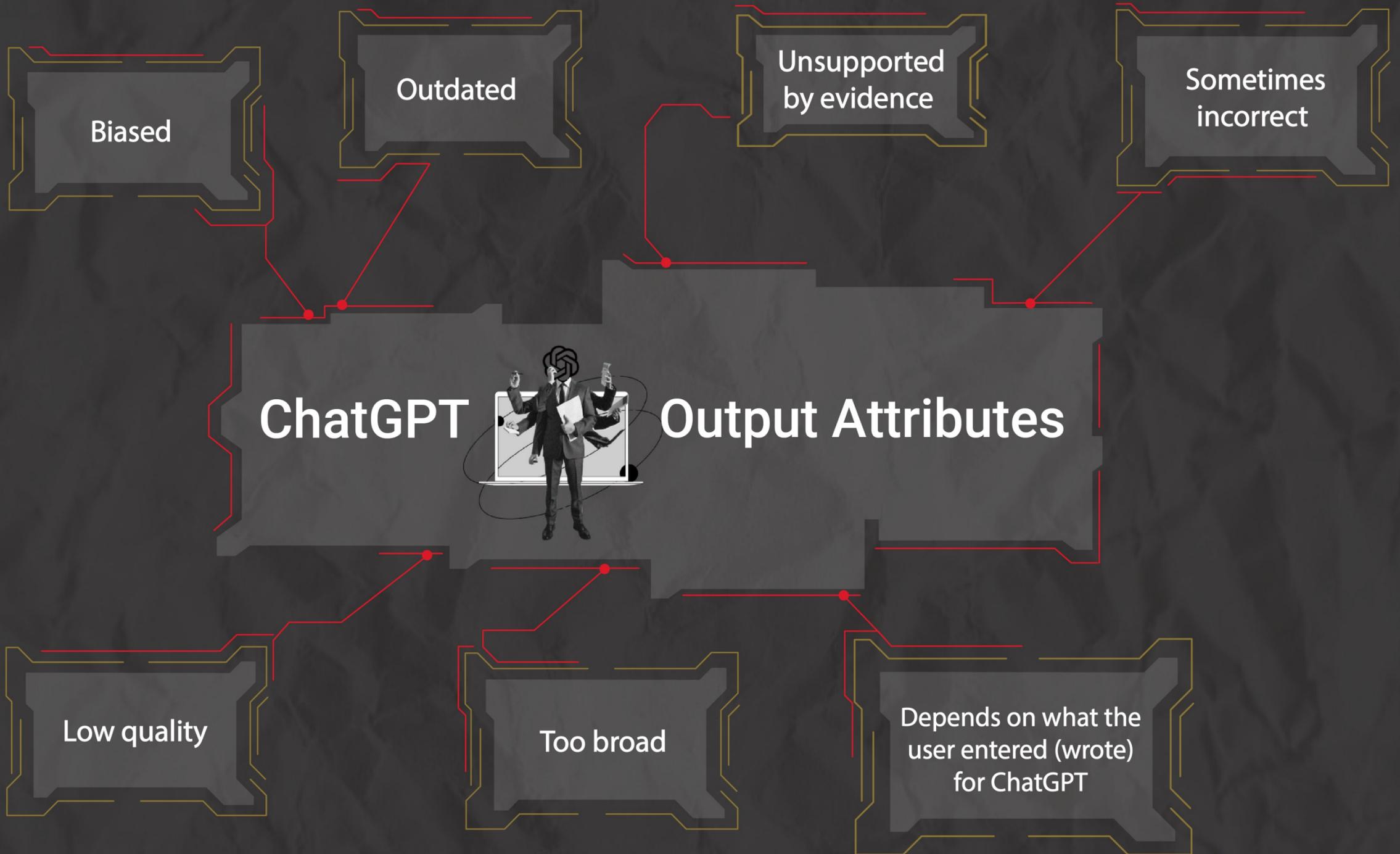
How do universities reduce scientific plagiarism with ChatGPT?

- ➔ **Raising awareness:** by providing tutorials on using the app appropriately, explaining its use, and when it should be avoided.
- ➔ **Educating researchers about plagiarism and its consequences:** ChatGPT does not copy and paste text directly but rather copies and paraphrases ideas, which contradicts the trait of originality.
- ➔ **Announcing:** by asking researchers to write a written statement stating that they have not used any AI models to compose their research.
- ➔ **Authorship:** AI cannot be considered an author, and its use must be recognized correctly.





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Scientific Plagiarism Detection Applications

There are many applications that can be used to detect scientific plagiarism using artificial intelligence, including:

➔ Turnitin

A service commonly used to detect scientific plagiarism in research papers and academic works by comparing the entered text with a comprehensive database containing millions of academic texts and articles published on the Internet.

➔ Plagiarism Checker X

A tool that uses AI technology to detect scientific plagiarism. The tool allows you to compare the entered text with online sources and academic databases.

➔ Copyscape

An online tool used to detect scientific plagiarism and verify the authenticity of content. The app uses internet search technology to find sites that publish copies of the content entered.

➔ iThenticate

Another application that uses textual analysis to detect scientific plagiarism in research, articles, and research papers.

