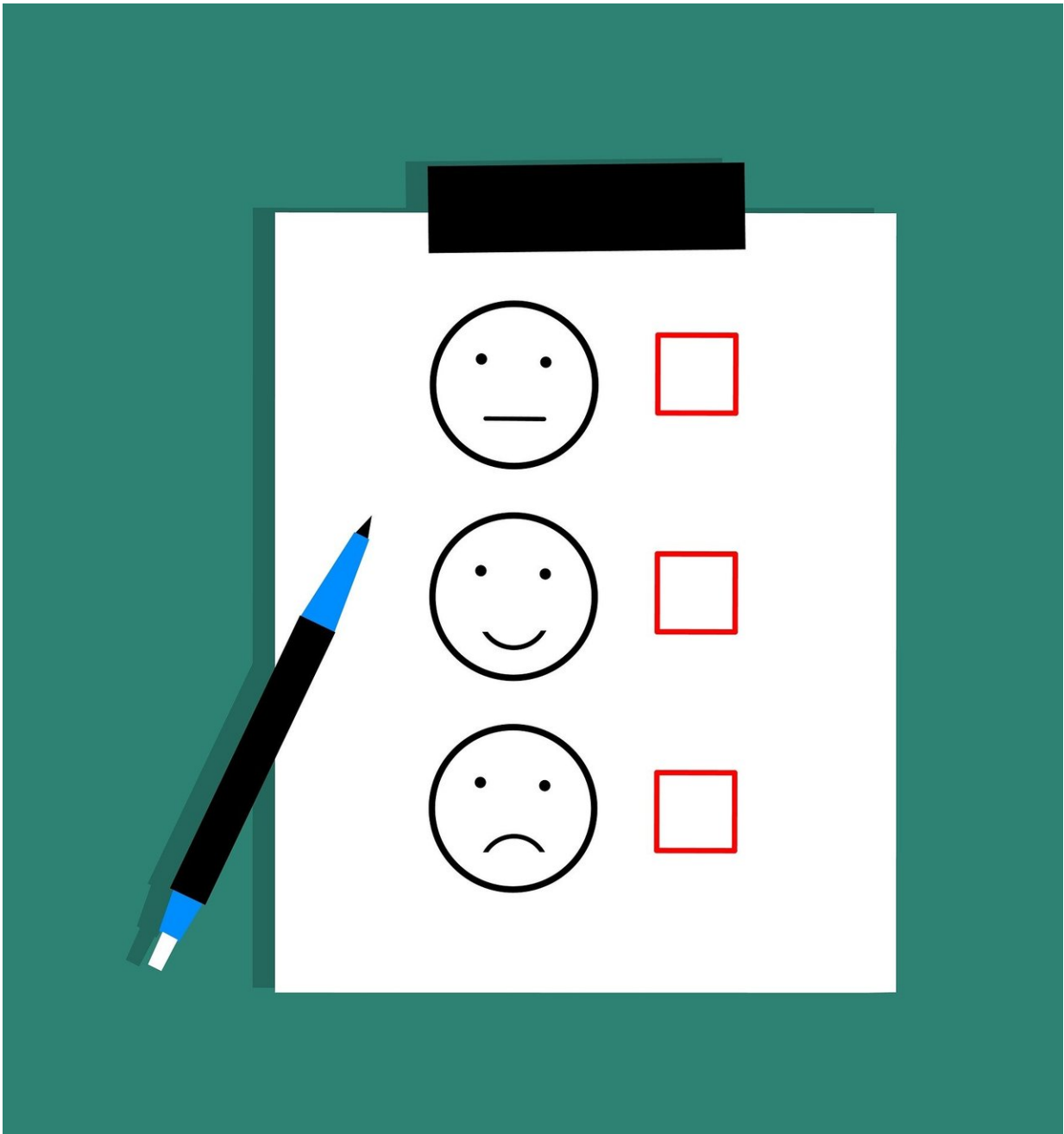


Human instinct can be as useful as algorithms in detecting online 'deception'

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Travelers looking to book a hotel should trust their gut instinct when it comes to online reviews rather than relying on computer algorithms to weed out the fake ones, a new study suggests.

Research, led by the University of York in collaboration with Nanyang Technological University, Singapore, shows the challenges of online 'fake' reviews for both users and [computer algorithms](#). It suggests that a greater awareness of the linguistic characteristics of 'fake' reviews can allow online users to spot the 'real' from the 'fake' for themselves.

Dr. Snehasish Banerjee, Lecturer in Marketing from the University of York's Management School, said: "Reading and writing [online reviews](#) of hotels, restaurants, venues and so on, is a popular activity for online users, but alongside this, 'fake' reviews have also increased.

"Companies can now use [computer](#) algorithms to distinguish the 'fake' from the 'real' with a good level of accuracy, but the extent to which company websites use these algorithms is unclear and so some 'fake' reviews slip through the net.

"We wanted to understand whether human analysis was capable of filling this gap and whether more could be done to educate online users on how to approach these reviews."

The researchers tasked 380 people to respond to questions about three hotel reviews—some authentic, others fake—based on their perception of the reviews. The users could rely on the same cues that computer

algorithm use to discern 'fake' reviews, which includes the number of superlatives in the [review](#), the level of details, if it was easy to read, and appeared noncommittal.

For those who already skeptical of online reviews this was a relatively straightforward task, but most could not identify factors such as 'easy to read' and 'non-committal' like a computer [algorithm](#) could. In the absence of this skill, the participants relied on 'gut instinct'.

Dr. Banerjee said: "The outcomes were surprisingly effective. We often assume that the [human brain](#) is no match for a computer, but in actual fact there are certain things we can do to train the mind in approaching some aspects of life differently.

"Following this study, we are recommending that people need to curb their instincts on truth and deception bias—the tendency to either approach online content with the assumption that it is all true or all fake respectively—as neither method works in the online environment.

"Online users often fail to detect [fake reviews](#) because they do not proactively look for deception cues. There is a need to change this default review reading habit, and if reading habit is practiced long enough, they will eventually be able to rely on their gut instinct for fake review detection."

The research also reminds businesses that [ethical standards](#) should be upheld to ensure that genuine experiences of their services are reflected online.

More information: Snehasish Banerjee et al, Calling out fake online reviews through robust epistemic belief, *Information & Management* (2021). [DOI: 10.1016/j.im.2021.103445](https://doi.org/10.1016/j.im.2021.103445)

Provided by University of York

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