Relation to the social sciences

Understanding Human Behavior Social sciences, such as sociology and psychology, focus on understanding human behavior, social interactions, and societal structures. This article highlights the versatility and importance of the use of AI in the cyber security field. AI uses these social science principles to analyze patterns and predict future threats and vulnerabilities. In summary, AI helps to mitigate cyber victimization by addressing moral and ethical concerns, using data to make more informed decisions as well as increasing our understanding of human nature thus proactively aiding us in the protection of vulnerable groups. These efforts combined contribute to an overall safer online community.

Proposed Hypothesis

One of the hypotheses highlighted in the article reads as follows: *Artificial intelligence in cybersecurity significantly mediates the relationship of cyber-victimization and the anger and frustration*. My interpretation of this hypothesis realizes the benefits of utilizing artificial intelligence to protect people from cybercrimes but also includes the reduction of the natural emotional reactions of anger and frustration that stems from constant cyber victimization. The implementation of AI in cyber spaces contributes to a safer more secure environment that promotes overall well-being. The hypothesis perfectly encapsulates how the advancements of AI help stabilize basic human emotions as well as societal challenges.

Research methods

A quantitative research design was utilized, with a sample size of 244 employees working in different departments of Saudi Arabia. Data were gathered using validated scales and were analyzed using Structural Equation Modeling (SEM) through the use of Stata software. (Sanjar Mirzaliev,2024, pg1) According to the article, the data used in the experiment was collected via a survey both electronically as well as on paper which varied due to participant preference and accessibility. The surveys were scored and scaled based on a 5-point Likert scale ranging from 1 for strongly disagree to and 5 for strongly agree. This is a type of rating scale that suits this experiment perfectly because it measures people's opinions, attitudes, or behaviors.

Data analysis

According to the data pool collected from the surveys: Cyber-victimization has a significant influence on anger and frustration showing a direct and high impact. Artificial intelligence in cybersecurity mediates this relationship significantly thus emphasizing its role in reducing emotional impacts. "Aliane, 2024, Pg 12

Correlation between class and article

The concepts covered in the PowerPoint slides perfectly correlate to the overall topic of the article. The survey conducted touches on points of social sciences such as anthropology, which focuses on how our culture became more complex over time and the differences in our way of life, sociology, which covers social behaviors and psychology, which broadly covers everyday human interactions and various behavior. Additionally, the scientific principle of relativism also plays a role in the hypotheses and experiments discussed in the article. Relativism establishes the idea that all things are related and build upon each other. The implementation of AI in cybersecurity could lead to changes in online culture globally thus decreasing the feeling of anger and frustration covered in the article.

Impact on marginalized groups

This article proves that the continued use of AI in cybersecurity has the potential to benefit marginalized groups by addressing their concerns and challenges thus improving their feeling of empowerment and inclusion in the cyber space. The findings point to the need to invest in AI based cybersecurity solutions that prevent cyberattacks but also reduce the emotional impact on victims. Organizations must focus on developing and deploying AI technologies that can identify, monitor, and mitigate online harassment in real-time in pursuit of psychological safety of users. "The focus of the study has been on the moderating effect of cyberbullying coping strategies, indicating the efficacy of interventions like awareness programs and counseling in better preparation of an individual to face emotional consequences from online victimization "(As stated by Nadir Aliane, 2024)

In conclusion

In conclusion, utilizing AI to assist in the decrease of cyber-victimization has statistically proven to be beneficial. The article is a perfect bled of topics covered so far in the course in relation to social science principles such as sociology and psychology. As someone who has always been fascinated by artificial intelligence, I can clearly see how its use can help facilitate change and effectively combat the increasing threat of cyber threats.

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