Are The Dark Triad Traits Beneficial in Better Explaining the Adoption of Generative Artificial Intelligence Tools Among Young Users? Selected Survey Results

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Abstract

The paper presents selected results of a study on the relationship between the dark triad of personality traits and young persons' acceptance of generative artificial intelligence (gen AI) tools in Poland.

Generative AI has become popular recently, with tools generating text, photorealistic images, videos, and music. Large language models like ChatGPT made generating, paraphrasing, summarising, and translating texts easy and efficient. Unfortunately, previous reports often indicate the potential dishonest use of generative AI tools by young users to gain benefits during their studies/work.

The theoretical framework of the research combines the trust-based (technology) adoption theory (TBA) in the context of generative AI tools with the Dark Triad personality traits measurement. Data analysis (on the sample of 304 Polish adults below 30 y.o.) uses covariance-based structural equation modelling (CB-SEM).

In TBA, technology adoption, measured as the behavioural intention to use it (BItU), depends firstly on cognitive trust (CT) (with three subdimensions: trust in competence, benevolence and integrity). CT evokes affective trust toward the technology that is influencing BItU.

The Dark Triad is a set of three destructive and harmful but non-pathological personality traits: Machiavellianism, sub-clinical Narcissism, and sub-clinical Psychopathy.

Under hypothesis, the higher intensity of the Dark Triad traits is positively associated with the acceptance of using generative AI and promotes a higher BItU. The results indicate a higher level of CT (mainly trust in competence) in generative AI tools among people with higher Narcissism. Also, higher Psychopathy connects with a higher propensity to pay fees for generative AI tools usage.