

# A Study on AI's Potential in Combating Cybercrimes through Real-Time Detection and Response to Fraudulent Activities.

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**Abstract:** Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. The research method followed is empirical research. A convenience sampling is a sample where the respondents are selected, in part or in whole, at the convenience of the researcher and data was collected by a structured questionnaire. The samples were collected from friends and relatives as well as nearby college and public. Sample size is 200. The questionnaires consisted of demographic data and statements in Likert scale. The independent variables are gender, age, occupation, educational qualification, income and marital status. The dependent variables are Real-time AI monitoring is used to detect and responses to fraudulent activities and its ethical concerns helps to Combating cybercrimes, collaboration between humans and AI is the best approach for addressing cybercrime, On a scale of (1 to 5) how concerned are you about the ethical implications of AI in cybersecurity, organizations Should prioritize ethical considerations when implementing AI for cybersecurity. Primary advantage of using AI in combating cybercrimes, Regulations should govern the use of AI in cybersecurity. All data was analyzed by using the SPSS tool. AI systems fail to prevent cyberattacks, Organizations need to be open to adopting new technologies and embracing change, Continuous research and development are needed to improve the accuracy in cybersecurity and efficiency of AI algorithms. Findings about Artificial Intelligence (AI) has emerged as a powerful tool in the fight against cybercrime. Its ability to analyze vast amounts of data in real-time and identify patterns that might be missed by human analysts makes it a valuable asset in detecting and responding to fraudulent activities..

**Keywords:** cybercrime, Organizations, cybersecurity, Artificial Intelligence, collaboration

