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How Generative AI Can Help Fight Construction Fraud

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Taking a look at the current state, challenges, and solutions of using generative AI in the construction industry might reveal ways it can be used to prevent, identify, and combat construction fraud.

The construction industry is plagued by fraud, ranking in the top fve median losses by industry, according to the Association of Certifed Fraud Examiners. In 2024, the same ACFE report indicated that the median loss for the construction industry was \$250,000, and the median duration of a fraudulent scheme (i.e. the amount of time a fraud was committed before being detected) was 12 months, with the most common types of fraud in the U.S. construction industry being billing schemes, corruption, expense reimbursements, and non-cash misappropriation. Such fraud can take many forms — bid rigging, inf ated invoices, falsif ed documents, defective materials, and bribery — leading to cost overruns, delays, quality issues, safety hazards, legal disputes, and other serious consequences for project owners, contractors, suppliers, and the public.

Detecting and preventing fraud is a vital part of any construction project, but it is also a challenging one, as fraudsters are becoming more sophisticated and elusive, and traditional fraud detection methods, which rely on manual audits, random checks, and whistleblowers, are often insufficient. This is where generative AI can make a difference.



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Generative AI is a branch of artificial intelligence that can create novel and realistic outputs, such as images, texts, sounds, or designs, based on a given input or goal. Generative AI has been making waves in various domains, enabling new forms of creativity, innovation, and personalization. However, the construction industry has been slow to adopt generative AI, despite its potential to enhance fraud detection and prevention. According to a recent survey by KPMG, only 37% of respondents reported that they missed budget and/or schedule performance targets. However, the same survey also indicates that 11% of f rms have not adopted basic data analytics and 31% have not adopted advanced data analytics.

Using generative AI for fraud detection and prevention in construction can offer many benef ts, such as:

- » Improving fraud detection-and prevention accuracy and eff ciency: Generative AI can generate realistic and diverse fraud-detection and prevention scenarios and simulations based on various inputs, such as project specifications, contracts, invoices, receipts, and reports. This can help identify and quantify the potential fraud risks and indicators, as well as their patterns and anomalies. Moreover, generative AI can generate optimal solutions and recommendations based on the desired objectives and constraints, such as fraud-prevention strategies, fraud-detection thresholds and fraud-response actions. This can help reduce the likelihood and impact of fraud, as well as the time and cost of fraud detection and prevention.
- » Enhancing fraud-detection and prevention learning and innovation: Generative AI can generate novel and

About the Author

Christopher Ward is the associate managing director at <u>K2 Integrity</u>, a global consultancy and investigative frm. He works with public and private sector clients to develop and implement risk assessments and work plans designed to monitor and audit compliance with project and contractual requirements and to identify and close gaps in project controls, policies, and procedures. Chris supervises a team of forensic engineers to ensure delivery of high-quality work product that helps ensure clients' construction project are in compliance with regulations and requirements.

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