

AI VS AI: FRAUDSTERS
VS FRAUD FIGHTERS AND
THE FUTURE OF FRAUD

2025 REPORT



ravelin.com







### TYPES OF AI TOOLS USED BY **FRAUDSTERS**

**LLM-based GenAl** - for spear phishing attacks vs consumers and employees

Synthetic IDs - to scale up fake account creation

Generative AI – to create scripts for attacks

**Vocal cloning** – for spear phishing on the phone, against consumers and employees

### TYPES OF AI TOOLS USED BY FRAUD FIGHTERS

**Machine learning** - to stop fraud and learn from past behavior

Big data analysis - to detect anomalies

Natural language processing - to better understand context and text inputs

Adversarial AI - to simulate attacks

**Generative AI** - to assist with day-to-day fraud ops, reporting, and more





- 2 FRAUDSTERS VS FRAUD FIGHTERS
- 4 A MATTER OF SCALE:

  MARTIN SWEENEY ON ALIN FRAUD
- 5 WILL AI MAKE FRAUD MORE DIFFICULT TO PREVENT?
- 6 HOW CAN AI STOP FRAUD?
- 7 AI-POWERED FRAUD:
  PERCEPTION VS REALITY
- 8 ADOPTION OF ANTI-FRAUD AI
- 9 THE CONSEQUENCES OF AI-FUELLED FRAUD



## A MATTER OF SCALE: MARTIN SWEENEY ON ALIN FRAUD

We've read a lot about the "Al revolution" in every sector of professional, personal and public life. At the end of the day, how does the rumored onslaught of Al fraud manifest itself, if at all? And how helpless are we against it?

Al in fraud is a matter of scale.

Ravelin was one of the first Al-native fraud prevention companies, building the entire fraud detection solution around engineering principles and deploying multiple machine learning models to continuously improve performance.

This automation, stemming from the adoption of ML and AI, is what allowed our customers to scale up and grow without disproportionately increasing their headcount.

Of course fraudsters will use AI. It's inevitable that they will be able to. Like the fraud prevention community has industrialized our artisanal process, fraudsters will also use AI to industrialize theirs, and they will have more of a production line of attacks and people perpetrating them. And they have more efficient tools to do it, whether that means AI and LLMs or anything else.

Our survey results showed that 64% of merchants have already been targeted by Al fraud – but, as tech experts, we also might want to take that with a pinch of salt.

What's the real story? Even if fraud teams have irrefutable proof that Al tools are used against their fraud department, this can be a simple, obvious application. For example, a criminal might use ChatGPT to write a refund abuse claim or a phishing email. But is that groundbreaking or impossible to prevent? I don't think so.

I think the real story is that AI is part of a package of tools that help people become more efficient in perpetrating the crimes they already wanted to perpetrate. There is no magic "help me be a really good fraudster" button. But there is a series of improvements fraudsters can make to their process to make it harder to detect. Just as there have always been.

On our end, as fraud prevention experts, we want to do the same: Continuous improvements to our processes, strategies, and tooling, to make ourselves more efficient and to be able to use at scale – which ought to include machine learning tools, NLP, LLMs and any Al that might be useful in stopping fraud.

Automation, efficiency and working smart is what Ravelin has always been about.



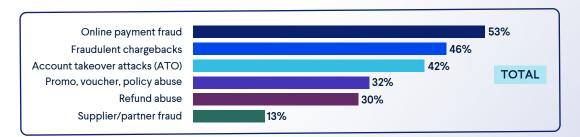
Like the fraud prevention community has industrialized our artisanal process, fraudsters will also use AI to industrialize theirs"

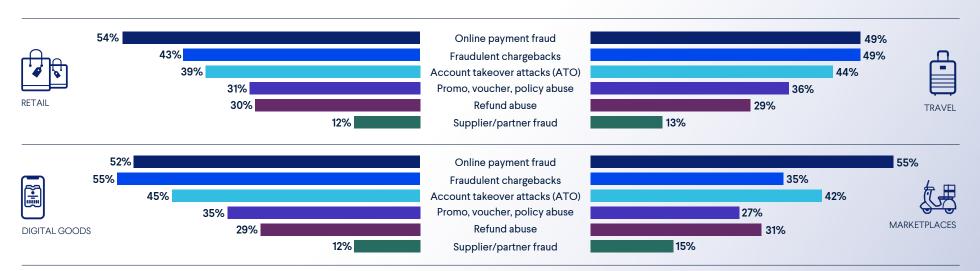


#### WILL AI MAKE FRAUD MORE DIFFICULT TO PREVENT?

"Do you believe any of these types of fraud will become more frequent and/or difficult to prevent in the next 12 months due to AI?"

Most merchants expect
Al-enabled fraud to affect
payment fraud the most
- and partner fraud the least.

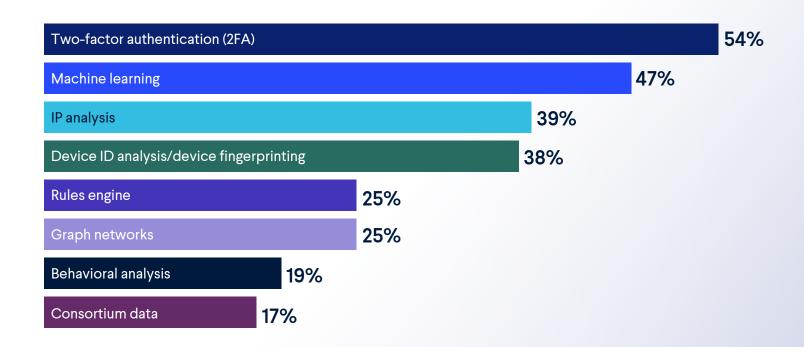






#### HOW CAN AI STOP FRAUD?

"Which of the following tools do you find most effective for fighting fraud?"

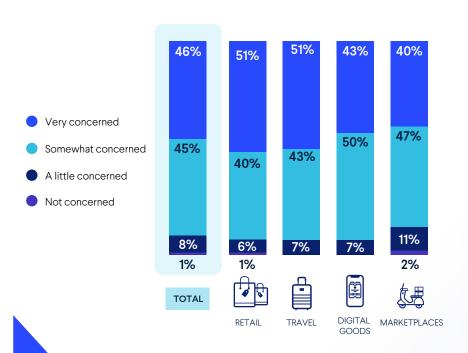




### AI-POWERED FRAUD: PERCEPTION VS REALITY

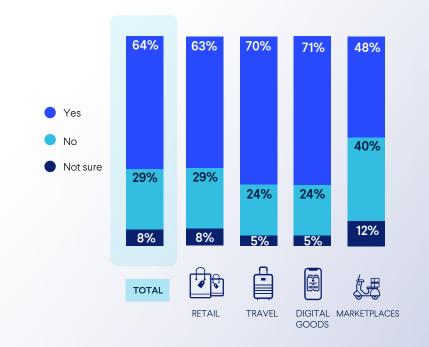
Digital Goods report the most Al fraud, while Marketplaces are reporting the fewest attacks.

"Are you concerned about fraudsters using AI technology (LLMs, machine learning, synthetic IDs, etc) to attack you or your customers?"



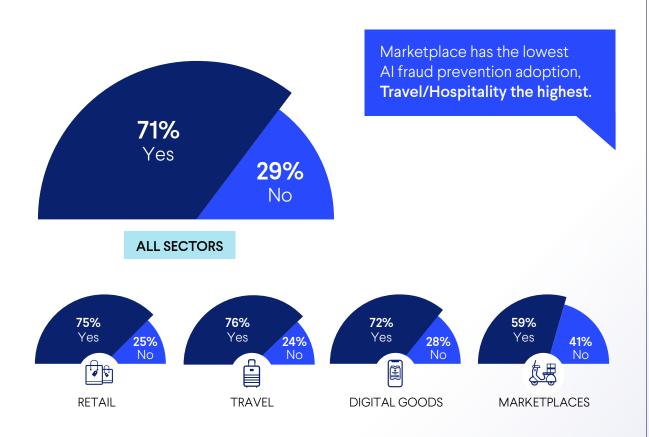
The Travel/Hospitality sector is most concerned, with Marketplaces the least concerned.

"Are you aware of any fraudster activity involving any type of AI technology (LLMs, machine learning, synthetic IDs, etc) attempted against your company in the past 12 months?" learning, synthetic IDs, etc) to attack you or your customers?"



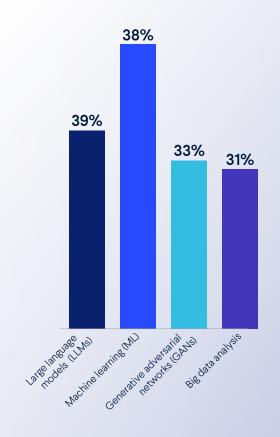


#### ADOPTION OF ANTI-FRAUD AI



"Are you currently using machine learning (ML), large language models (LLMs) or any other AI technology to detect and/or prevent fraud?"

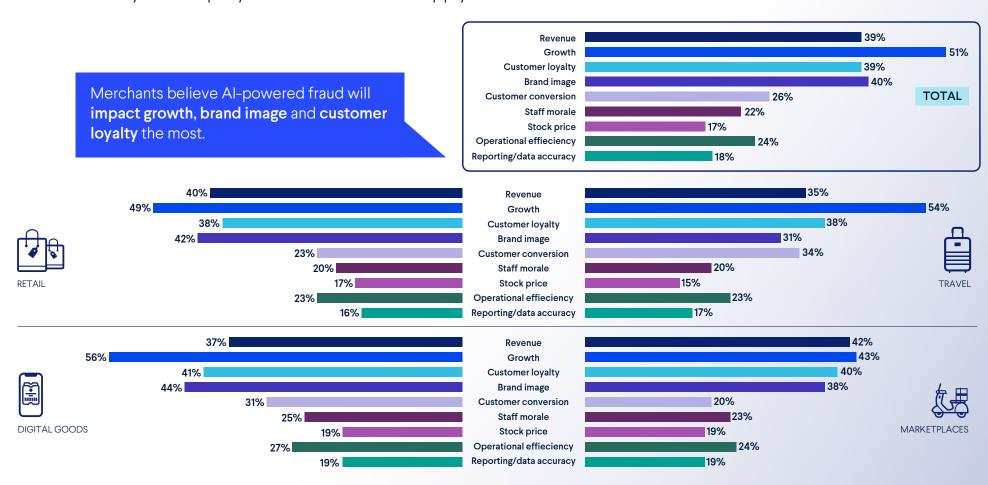
"Which of the following types of artificial intelligence do you believe are or could be useful in the fight against fraud?"





### THE CONSEQUENCES OF AI-FUELLED FRAUD

"Are you concerned about the impact of Al-enabled fraud on any of the following metrics and results at your company? Please select all that apply."





Ravelin is Al-native, using a ML-first multi-model approach to enabling automation that allows merchants to accept more payments and serve customers with confidence.

1

Ravelin's solutions make use of ML models trained on clients' own data and risk landscape – and they grow alongside our clients, constantly learning and improving.

2

Using **LLM tech**, Ravelin's Al fraud rule generator understands requests in any language to generate complex fraud rules that match your policies.

3

We've deployed **natural language processing (NLP)** in our ML models to better understand non-numerical signals such as text within context, for greater precision.

All data gathered as part of Ravelin's Global Fraud Survey.

For more details and more data please download the Global Fraud Survey Report.



# Thank you for reading our Al vs Al in Fraud Report

Ravelin builds Al-native solutions to help companies accept payments with confidence, learning from your historical data to inform a payments strategy that works for your specific needs and goals – and no-one else's.

Get in touch today to find out more about solutions addressing online payment fraud, refund abuse, account security, 3D Secure, transaction optimization, promo abuse, or supplier fraud.

Book a call at ravelin.com/contact-us.

### Questions? Comments?

Please write to marketing@ravelin.com.

We frequently release new findings in fraud and payments.

Make sure you follow us on LinkedIn or by signing up at ravelin.com.