



AI VS AI: DEFENDING FINANCIAL INSTITUTIONS FROM IMAGE-BASED FRAUD

A systemic approach to detecting GenAI manipulation, ensuring operational resilience, and keeping humans in the loop.



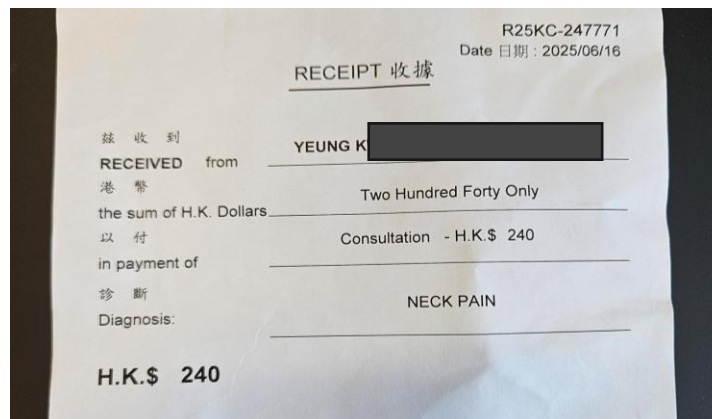
AI ALLOWS FRAUD IN 5 SECONDS

Q: CAN **YOUR SYSTEM** SPOT THE DIFFERENCE ?

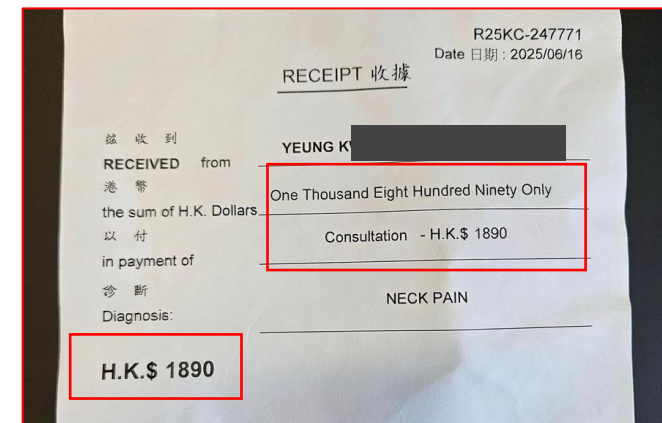
Alter a receipt with simple prompt

Prompt: *"change the amount to 1890"*

Original



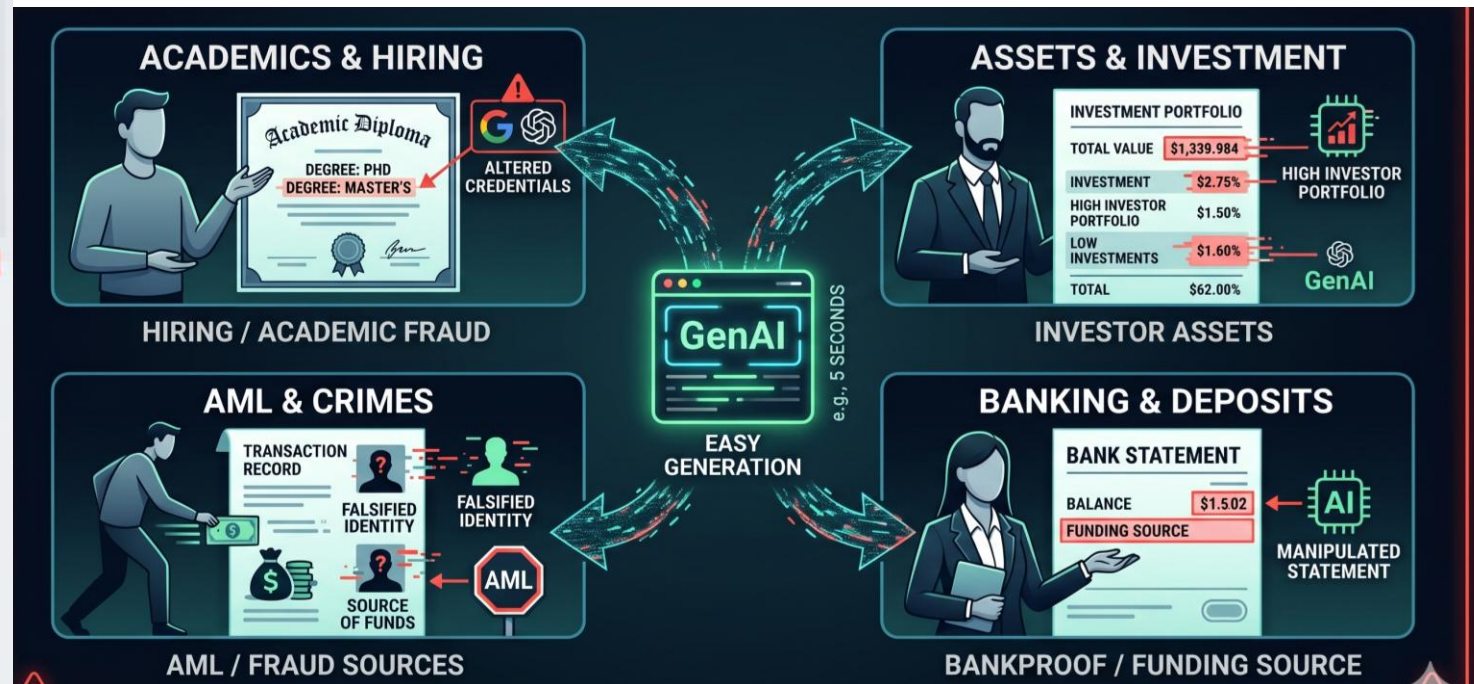
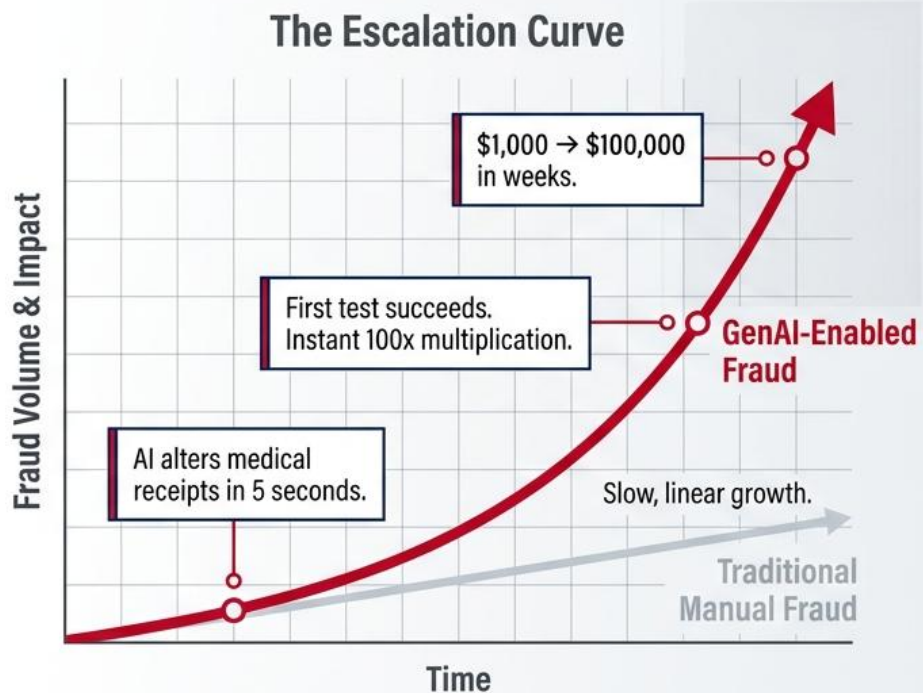
New





Q: YOUR PROCEDURE INVOLVES TRUSTING AN IMAGE ?

THE ERA OF "SEE TO BELIEVE" HAS ENDED





EASIER AND FASTER FRAUD

Image Fraud: The Great Shift

THEN: Manual Forgery



Required specialized skills and software.

Visibility: Obvious



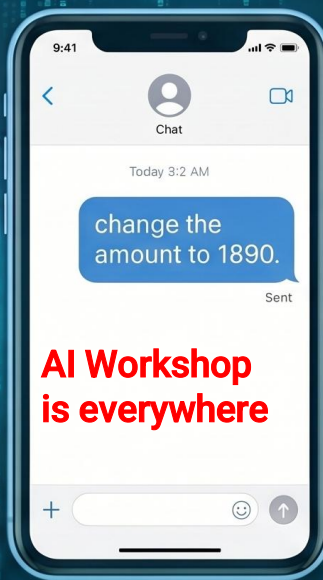
Flaws were often detectable by OCR or the human eye.

Scaling: Linear



Slow, one-by-one growth.

NOW: AI Manipulation



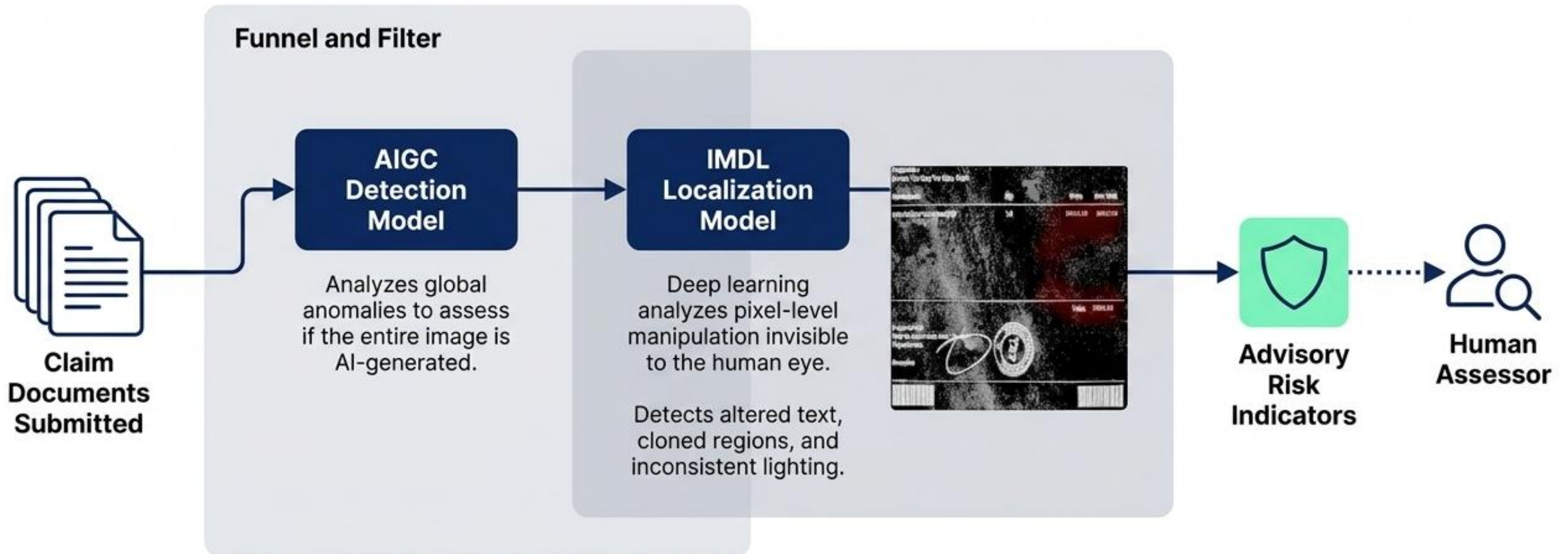
Agentic AI to automate fraud creation



AI pixel manipulation is invisible to humans, requiring deep learning defense.



PIXEL-LEVEL DEFENSE REQUIRES AN AI-VS-AI ARCHITECTURE



2+ Financial Institutions
implemented this state-of-the-art solution

DESIGNED FOR SAFETY, COMPLIANCE, AND PREVENTIVE DETERRENCE

Research Partner: Sichuan University



- **Enhanced AIGC Detection:**
 - Best Accuracy in market
 - Transparency and explainability to assist human intervention
- **Rapid Deployment (≤ 3 Months):**
 - Local deployment
 - Integration to your operational requirements, sensitivity tuning, data flow, and seamless API/JSON.
- **Automated Data Synthesis for training:**
 - No worries on data availability
 - Keep solution up to date
 - A proprietary pipeline generating high-fidelity synthetic fraud cases for continuous, privacy-compliant model training.

DESIGNED FOR SAFETY, COMPLIANCE, AND PREVENTIVE DETERRENCE



Decision Governance (Human-in-the-Loop, Optional)

Human assessors could retain final authority and legal accountability.

AI can be strictly advisory.

Manual fallback ensures zero operational downtime.



Data Privacy & Operational Security

Receive-and-Drop" architecture:
No use of PII or client data.

Models trained with MCC's database & synthetic methodology



Preventive Deterrence (Day 0 Defense)

Like "Anti-virus", to scare & avoid danger before it scales



The tools to commit
fraud are free;



Act now to avoid Fraud

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