Face Presentation Attack Detection via Deep Reinforcement Learning

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Problem Statement:

Mr. Walter White is a 45 year old successful businessman. He hasa own business for past 20 years. In these 20 years he faced a lot of security issues and trouble in preventing the data from attackers.

- Mr. Walter White wants to setup a face recognition system that prevents others from accessing his important data.
- He has faced a huge loss for a long time.
- He needs a secure face recognition system to prevent data from replay and print attacks.
- He needs to secure his system immediately.

Who does the problem affect?	Personwho has the data
What are the boundaries of the problem?	May lead to reputation loss and also leakage of models or prototypes.
What is the issue?	In business aspect, if confidential data gets released unknowingly of the userit may lead to huge financial loss.
When does the issue occur?	When attacker needs to access the data and corrupt the whole system.
Where does the issue occur?	The issue occurs in the system of the user.
Why is it important that we fix the problem?	It will be useless if the face recognition system is vulnerable to replay and print attacks. So it is important to detect and prevent these attacks.
What solution to solve this issue?	Improved face recognition system to correlate between real face and replay/print attack.
What methodology used to solve the issue?	We use deep reinforcement learning to prevent from attacks.