Main Quest: Securing Mobile Payments via AI

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"Empowering creativity and innovation in cybersecurity and AI"

Introduction

The rise of mobile payment solutions based on QR codes has transformed the interaction between consumers and merchants, making transactions faster and more accessible. However, this technological revolution introduces new security challenges, including static QR code fraud, expired dynamic QR codes, and identity theft. Addressing these threats is crucial to preserving user trust and the security of mobile payment systems.

Challenge Objective

Your mission is to design an AI model capable of detecting and preventing fraud in QR code-based mobile payment systems. Participants are required to search for or create their own datasets to achieve this. This approach ensures creativity in crafting solutions without the constraints of predefined data.

Evaluation Criteria

Submissions will be judged on the following:

- **Innovation:** Originality in addressing QR code fraud challenges.
- **Performance:** Effectiveness in detecting fraud with minimal false positives.
- **Scalability:** Adaptability to large-scale deployments.
- **Presentation:** Clarity in conveying technical choices, results, and future improvements.

Deliverables

Participants are required to submit:

1. A conceptual framework describing the data, fraud patterns, and technical solution.
2. A simulation setup, including scenarios, metrics, and scripts.
3. A comprehensive presentation with visualized results, added value, and recommendations for improvement.