

# AI & Cybersecurity in Finance:

Strengthening Authentication with OTP & 2FA Workshop  
(with certificate / CPT)



Explore how AI enhances security frameworks through intelligent analysis and adaptive threat detection. Learn practical approaches to implementing One-Time Password (OTP) and Two-Factor Authentication (2FA) systems that bolster protection against fraud and breaches. Through real-world financial case studies and hands-on activities, discover how AI-driven strategies are redefining digital trust. Whether you're in tech or finance, this session offers critical insights into safeguarding financial systems and building resilient authentication protocols for tomorrow.

<b>Duration</b>	4 hours
<b>Format</b>	Lecture + Hands-on Exercises + Group Discussion
<b>Language</b>	English / Cantonese
<b>Who should attend</b>	Financial Practitioners and anyone wants to learn cybersecurity

\* Participants shall bring their own laptop and stationery for the classwork.

## Workshop Objectives

1. Understand the role of AI in enhancing cybersecurity within financial systems
2. Apply secure authentication practices using OTP (One-Time Password) and 2FA (Two-Factor Authentication)
3. Evaluate security risks and compliance requirements for financial access control
4. Explore AI-driven fraud detection and anomaly identification



**Participants will receive a certificate of attendance from Cyberport Academy.**

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## Course Outline

### Session 1: Cybersecurity Essentials for Finance

#### Key Topics:

- Key cybersecurity threats in financial services
- AI's role in fraud detection and security enhancement
- Authentication methods: passwords, OTP, 2FA, biometrics
- Case study: Review recent cybersecurity breaches in finance and their impact
- Class activity: Participants assess their organization's authentication methods and potential weaknesses

### Session 2: Strengthening Financial Authentication with OTP & 2FA

#### Key Topics:

- How OTP and 2FA work across platforms (SMS, email, authenticator apps)
- Secure implementation and integration with banking systems
- Compliance with financial regulations (e.g., PSD2, FFIEC, HKMA guidelines)
- Group exercise: Evaluate security trade-offs and usability challenges in authentication

### Session 3: AI in Financial Security: Risk Detection & Fraud Prevention

#### Key Topics:

- AI's role in identifying fraudulent transactions and suspicious logins
- Behavioral biometrics & anomaly detection for financial security
- Real-time monitoring & alerting using AI models

#### Hands-On:

- Participants analyze security logs with AI-assisted fraud detection tools

#### Discussion:

- How financial institutions can leverage AI for proactive security measures

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### Session 4: Designing Secure Financial Workflows

#### Key Topics:

- Best practices for integrating AI-enhanced security in financial access control
- Balancing user experience and security enforcement
- Audit logging and compliance reporting

#### Workshop Challenge:

- Teams collaborate to propose an optimized financial authentication flow

#### Review & Feedback:

- Expert panel discussion on real-world security challenges

## Trainer Information



### Mr. Felix Kan

CEO & Co-founder of Reimagine Cyberbay Limited (Cyberbay)

Felix is an ex-PwC Partner who started his career as an ethical hacker with 10 years of extensive consultation experience. During the period, he co-founded PwC's Darklab, Hackaday and Hackbot. He also developed real life attack simulation methodology and helped his corporate clients to transform on their cyber journeys. Meanwhile, Felix successfully helped his corporate clients to transform their cyber defence strategies and enhance their operational defence tactics. Felix's key areas of expertise and experience include IT governance, IT security framework, application and data security, IT risk, security management, technology architecture and ethical hacking focusing on high security network, web and mobile applications. For education and Professional Certifications, Felix is a Designer and developer of CatchMe, a PwC proprietary tool, Offensive Security Certified Professional, GIAC Web Application Penetration Tester and a Certified Ethical Hacker.

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Remark:

- This training is also open to private individuals and corporate organizations through educational partnerships. Interested parties please send email to [training@cyberport.hk](mailto:training@cyberport.hk)
- Cyberport reserves the right to charge the original price if applicants use a discount code that does not belong to his/her category
- All monies collected will be used for Cyberport's public mission start-up events and activities
- Learners will NOT be given any certificate and attendance record if they are late and absent for more than a total of 15 minutes
- HKCMCL reserves the right to postpone or terminate this training programme, and any relevant offer and to amend the relevant terms and conditions at any time without prior notice. Please refer to the terms and conditions at [Terms & Conditions](#)