



ETH–NUS Joint Workshop

AI x FinTech: Bridging Innovation and Financial Insight

Jointly organized by FinsureTech Hub at ETH Zurich and Centre for Quantitative Finance at NUS

Hosted by Department of Mathematics & Institute of Mathematical Sciences

Venue: Auditorium, Institute of Mathematical Sciences

Block S17, Level 3, 10 Lower Kent Ridge Road, Singapore 11907

Thursday, 18 September 2025 – NUS Innovation & Tech Ecosystem Day

<i>Time</i>	<i>Activity</i>
13:30–14:00	Welcome & Introduction to NUS Enterprise
14:00–15:00	Startup Showcase: Presentations by 2–3 NUS FinTech/AI startups
15:30–16:30	Visit to Prof. Lin Shao’s Robotics Lab (Profile)
16:30–17:30	Guided NUS Campus Visit and networking walk

Friday, 19 September 2025 – Workshop & Hackathon Day

<i>Time</i>	<i>Activity</i>
10:00–10:30	Opening Remarks & Hackathon Problem Setting <i>Theme:</i> “AI Agents for the Future of Financial Decision-Making” Mixed teams formed (3–5 ETH & NUS students per group, ~10 groups)
10:30–11:00	Talk 1 (ETH Speaker)
11:00–11:30	Talk 2 (NUS Speaker)
11:30–12:00	Talk 3
12:00–13:00	Panel Discussion: <i>AI and FinTech — Regulation, Innovation, Risks</i>
13:00–14:00	Lunch Break
14:00–15:00	Hands-on Hackathon Working Time (mentors available on site)
15:00–15:30	Hackathon Video Presentation
15:30–16:30	Vote and Tea Break
16:30–17:00	Hackathon Award Ceremony & Closing Remarks 🏆 1-min AI video screening & Top 3 group awards

Monday, 22 September 2025 – Industry Immersion (Company Visits in Julius Baer, Singapore Exchange, etc. By Invitation Only)





ETH-NUS Hackathon “AI Agents for the Future of Financial Decision-Making”

- 🧑‍🤖 Teams: 10 groups, mixed NUS & ETH, 3–5 members
- 🎯 Task: Design a financial AI agent
- 🧠 Choose 1 of 6 suggested use cases (or propose your own)
- 📦 Deliverables:
 - 2-min AI promotional video (e.g., [InVideo AI](#), Pika, HeyGen)
 - Optional: working demo or code. 2–3 slides (problem, solution, impact)
- 🏆 Awards: Top 3 teams based on relevance, creativity, clarity, and teamwork

Problem Setting

Design and prototype an AI-powered financial agent — a digital assistant, tool, or decision-support interface — that tackles a real-world challenge in financial services, capital markets, or sustainability finance.

- Each team will conceptualize and build a solution or prototype that combines AI logic (e.g. NLP, predictive models, or smart analytics) with a clear financial decision-making use case
- You will wrap up your work by creating a 1-minute promotional video, pitching your solution as if to investors, regulators, or enterprise clients.

💡 This is a hybrid hackathon — coding is welcome but not required. Strong teams can deliver impact through mockups, design thinking, and analytics-driven storytelling.

🧠 Example Topics (Team May Choose One or Propose Their Own)


1. AI Co-Pilot for Portfolio Managers: A dashboard or chatbot that helps asset managers with allocation decisions, macro insights, or sentiment analysis. Could use LLMs or pre-trained models.
2. RegTech Assistant for Compliance Officers: An agent that scans through regulatory filings, transaction logs, or policy documents to flag compliance risks, e.g., insider trading suspicion.
3. Personalized Credit Risk Advisor: Design a tool to predict creditworthiness using both traditional and alternative data, targeting SMEs or gig workers.
4. AI-Powered Green Finance Tracker: Build a platform that verifies or scores ESG alignment of companies or bonds based on scraped news, filings, or proprietary scoring logic.






5. Fraud Detection in Digital Payments: Design a monitoring system using anomaly detection to flag real-time suspicious transactions across wallets or cross-border systems.
6. AI Agent for Real-Time FX Hedging Decisions: Provide a fast decision aid for corporates or traders in volatile markets, combining forecasts, macro signals, and cost minimization logic.

Each team defines the problem scope, users, and data logic — and shows how their agent provides meaningful insights or actions.


 Deliverables: By Friday, 19 Sep, 15:30, each team submits:


- 1-minute AI-generated promotional video. (Upload via Google Drive or link – show during award session)
- Optional (bonus): prototype/code/demo/ 2–3 presentation slides summarizing: Problem tackled; Proposed solution; Business or technical value

 AI Video Tools (Free or Freemium Options)

Teams can choose any of the following tools to create their video:

<i>Tool</i>	<i>Type</i>	<i>Link</i>
<i>Invideo AI</i>	AI-generated video from text	ai.invideo.io
<i>Pika</i>	Text-to-video animation	pika.art
<i>Lumen5</i>	Slide-to-video storytelling	lumen5.com
<i>HeyGen</i>	AI avatar/face videos	heygen.com
<i>Canva Video</i>	Easy animated storytelling	canva.com

 Video must be understandable, persuasive, and visually clear. Treat it like a mini startup pitch or product demo.

 Awards: Top 3 teams will be recognized based on:

<i>Criteria</i>	<i>Weight</i>
<i>Relevance & Innovation</i>	30%
<i>Technical/Business Insight</i>	25%
<i>Communication & Storytelling</i>	20%
<i>Promotion Video Creativity</i>	15%
<i>Team Collaboration</i>	10%

