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Iclif Executive Education Center

OPEN ENROLLMENT PROGRAM

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ENHANCING CREDIT INCLUSION WITH AI-POWERED ALTERNATIVE DATA SCORING



PROGRAM DETAILS

FACULTY	DATE/TIME	FEE*	VENUE
Calvin Lui Shum Kam Hong	9 April 2026 9.00AM - 5.00PM	RM3,500 USD875 <small>Program fee is 100% HRD Corp claimable. T&C applies</small>	Asia School of Business

Note: *

- Excludes Sales & Service Tax (8%)
- Fee excludes accommodation at ASB Residential for outstation/ overseas participants but can be arranged at additional cost.
- USD Pricing is indicative pricing. All fees are invoiced in Malaysian Ringgit (RM). USD amounts are shown for reference only and will vary based on the prevailing exchange rate at the time of payment.

Program Overview

This program introduces the key concepts and methodology behind utilizing AI and privacy-preserving technologies to generate comprehensive credit scores for Micro, Small, and Medium Enterprises (MSMEs) based on diverse data sources, including financial records, transaction histories, and alternative data points. Through real-world use cases, participants will learn how to build a more inclusive evaluation framework for MSMEs, while ensuring data confidentiality and security throughout the credit scoring process. The program will also cover key AI concepts, applications of AI in finance, and ethical considerations, including potential risks and mitigation strategies. Interactive, hands-on sessions will reinforce learning.

Learning Outcomes

- Explain the key AI concepts and basic AI models relevant to credit scoring
- Provide insights into how AI is transforming credit risk assessment and financial inclusion
- Apply AI solutions to credit scoring and underwriting tasks
- Analyze alternative data using AI for creditworthiness evaluation
- Formulate ethical considerations of using AI in credit scoring in the context of financial services in Malaysia

Who Should Attend?

- Professionals in finance, banking and regulatory bodies
- Entrepreneurs and leaders of Fintech platforms
- Anyone interested in leveraging AI for credit inclusion

Program Outline

Session 1: The Role of AI and Alternative Data in Credit Inclusion

Emerging Trends and the Future of AI in Credit

- Opportunities and challenges in enhancing credit inclusion
- Emerging trends on the use of AI and alternative data for credit scoring
- Industry-specific AI advancements and regional adoption of AI for access to credits

Technology Enablers for Credit Inclusion

- Drawing insights of credit worthiness through alternative data sources
- Use of machine learning model for credit scoring
- Ensuring privacy compliance using privacy preserving technologies

Global and Regional Use Case Highlights

- Credit scoring of Micro, Small and Medium Enterprises (MSMEs) in China and Japan using cashflow, payment and other alternative data
- Development of alternative credit scoring framework in Hong Kong under the Hong Kong Monetary Authority

Session 2: Technology Building Blocks

Alternative Data Selection, Preparation and Implementation

- Choosing alternative data: telco usage, utility payments, e-commerce transactions, digital wallets, e-invoicing, and psychometric data (with appropriate consent and ethical considerations)
- Categorizing alternative data types: behavioural data, contextual data, digital footprint data
- Assessing and validating data quality
- Addressing biases and limitations inherent in alternative data sources
- Strategy for data collection, integration, and validation

Neural Networks and Machine Learning Models for Credit Scoring

- Key AI components: Neural networks, machine learning, and deep learning
- Understanding AI workflows: Data, models, and predictions in the context of credit scoring
- How Neural Networks learn and make predictions in credit risk
- Supervised (regression) vs. Unsupervised (clustering) Learning in the context of credit analysis and scoring with practical examples
- Reinforcement learning for decision-making in dynamic environments (e.g. loan management)
- Ensemble methods for improved accuracy and robustness
- Time series analysis for incorporating dynamic and temporal patterns in credit risk assessment

Hands-on Activity 1: Use an AI-powered tool or a platform in a simulated exercise to explore credit risk assessment based on a sample set alternative data. Students could be tasked to analyze creditworthiness, generate image for loan collaterals, or output credit risk reports.

Session 3: AI and Business Innovation in Credit Inclusion

AI Innovation in Credit Businesses

- AI-enabled financial inclusion for MSMEs in developed and developing economies
- Innovation in credit scoring: Alternative data, faster processing, and personalized offers
- Innovation in underwriting: Automated decision-making and improved accuracy

Putting in Practice: Case Studies of Successful Implementations

- Malaysian fintech partners with e-commerce platforms providing financing to online sellers
- Malaysian bank uses telco data to score individuals in rural areas with limited credit history
- Key takeaways of implementation of credit scoring of MSMEs in China and Japan using cashflow, payment and other alternative data
- Key takeaways of Hong Kong Monetary Authority's Alternative Credit Scoring project and lessons learned from industry implementation

Opportunities for AI in Your Credit Business

- Identifying high-impact areas for AI deployment in your organization
- Aligning AI initiatives with strategic goals for credit expansion and risk management
- Scalability and ROI of AI-driven credit solutions
- Quick wins vs. long-term investments in AI for credit

Hands-on Activity: Participants work in small groups to analyze a hypothetical or real scenario related to credit risk assessment in Malaysia. They identify potential areas for AI adoption, rank them based on impact and feasibility, and outline a high-priority implementation plan.

Session 4: Ethics, Risks and Roadmap Ahead in AI for Credit

Ethical Concerns in AI for Credit

- Addressing bias and fairness in AI-driven credit scoring models
- Privacy considerations in alternative data usage and credit decisions
- Building accountability and transparency in AI applications for lending

Risks Associated with AI in Credit

- Potential discriminatory outcomes and adverse impact on vulnerable groups
- Data security threats and lack of adequate human oversight
- Need for sustainable workforce upskilling in the credit industry

Best Practices for Ethical AI Implementation in Credit

- Guidelines for responsible AI development and deployment in financial services
- Regulatory frameworks and compliance – PDPA in Malaysia, potential future AI regulations
- Building trust in AI-driven credit systems through stakeholder engagement

Roadmap Ahead

- Viable business model: partnering with data owners on the sharing alternative data
- Role of government: facilitating adoption through centralized credit-scoring data-interchange
- Inclusion impact expected: Enabling MSME-centric financial service personalization

Faculty



Calvin Lui is an Executive Training Consultant with LedgerBrains AI Consortium. He was the former Group Managing Director, IT & Consulting Services at McMillan Woods Global. With over 18 years in the IT industry, Calvin Lui brings extensive expertise in cybersecurity and enterprise architecture, applied across diverse sectors including finance, aviation, healthcare, construction, and fintech. A key area of his recent work involves advancing alternative credit solutions through innovative technology.

Calvin has specifically employed artificial intelligence (AI) to develop and enhance alternative credit assessment processes for a major bank. This focus on leveraging cutting-edge technology for financial solutions extends to his work in Malaysia. He has been actively involved in national e-invoicing projects with the Malaysia Digital Economy Corporation (MDEC). Notably, his co-founded company, Pintar Investments, is among the pioneering batch of companies accredited by MDEC for this national e-invoicing initiative.

This experience underscores Calvin's commitment to solving complex business challenges, particularly within the fintech arena. His entrepreneurial background, leading technology teams to apply AI and machine learning for industry-specific pain points, further highlights his capabilities. Calvin's technical proficiency is consistently maintained through ongoing upskilling, including recent certifications from AWS and Google Cloud.



Dr Shum Kam Hong is the Co-founder and Executive Training Consultant, LedgerBrains AI Consortium. He brings over 25 years of applied research and teaching experience in the ICT sector primarily in Hong Kong and Singapore. He is an expert in AI/Machine Learning, data analytics, advanced cryptosystems, security and e-payment infrastructures.

Dr Shum was previously the Head of Operations Transformation at China CITIC Bank International, where he led various digital transformation, intelligent automation and FinTech projects. Prior to that, he was the R&D Director at the Hong Kong Applied Science & Research Institute, where he authored two recent Hong Kong Monetary Authority white papers on alternative credit scoring and offline e-HKD.

In the earlier part of his career, Dr Shum lived in Singapore for 9 years, where he held various IT leadership roles, as well as faculty positions in Computer Science at both the National University of Singapore and Singapore Management University. He earned his PhD degree in computer science from the University of Cambridge, as well as a Doctor of Education degree specializing in data analytics from the University of Hong Kong.



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Enhancing Credit Inclusion
with AI-powered Alternative
Data Scoring.

