Department of Economics
Presidency University, Kolkata

Workshop

Title: Application of Machine Learning in Financial Economics

Course type: Offline workshop
Date and Time: 16th – 18th September, 2025 (tentatively).
Duration: 18 Hours (including theory and practical sessions)
Schedule of the Classes: 10am – 5pm
Course Fees: Rs. 2000/- (inclusive of GST @ 18%) through SBI Collect portal. The fee is non-refundable.
Mode of Course: Offline
Registration window: 15/08/2025 to 10/09/2025 (Midnight)

Eligibility: Undergraduate and postgraduate students, researchers and people from industry interested in learning techniques of investment and risk management in financial market may apply. Participants should have elementary idea about the functioning of financial market, knowledge in basic theories of statistics and knowledge in computer operation

Workshop Coordinator: Name: GAGARI CHAKRABARTI
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Course Objective:

Machine learning is a branch of artificial intelligence (AI) that focuses on enabling computers to learn from data and improve their performance on tasks without being explicitly programmed for each specific task. The world is seeing its application in almost all the arenas of industry and academia. Financial Economics which deals with the perfect blend of both industry-academia interface cannot stay far behind in this. Machine learning (ML) in financial economics is important because it offers advanced tools to model, analyse, and predict complex financial behaviours and market dynamics that traditional methods often struggle to capture. Its use can be extensive in the fields of Improved Prediction Accuracy, Big Data Utilization, Risk Management and Fraud Detection, Algorithmic and High-Frequency Trading, Behavioural Insights and Market Sentiment, Personalized Financial Services and the list goes on. It is due to this the application of Machine Learning in Financial Economics has become the need of the hour. Presidency University, through a workshop, conducted exclusively to learn the techniques of Machine Learning in Financial Economics, will try to understand the mechanism of various tools used in this field of study.

General Note

- Kindly fill the form with the correct information by **10.09.2025** midnight, IST.
- Once the form is submitted you are not subjected to any further change.
- The selection is done on a first come and first serve basis, availability of resources, and submission of valid applications.
- Selected participants will subsequently be informed about the payment method via their respective email id along with their Application Number. On successful submission of Course fees, participants will be notified about their Enrolment Number and commencement details of the workshop.
- Your fees will not be refunded once enrolled.

The application link is below:

https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=469266

Invited Resource person:

Dr. Jayatu Sen Chaudhury is currently a professor at the Great Lakes Institute of Management, Gurgaon. He has been a part of the Banking and Financial Sector for the last twenty-five-plus years working across ICICI Bank, GE Capital, and American Express. He has served in senior leadership positions as a Board Member and leader of the Analytical Center of Excellence for American Express in India. Dr. Sen in his latest stint was instrumental in building the American Express Center of Excellence from a few colleagues to a nearly two-thousand-member team partnering to provide analytical and product solutions to the Bank across business and countries. Over his tenure at American Express, Dr. Jayatu designed robust talent strategies that helped the Bank acquire the best talent and retain them for long tenures within the company. Over the last decade, he played a key role in establishing the Big Data Lab for American Express in Bengaluru which develops AI products for the company.

Dr. Sen has established himself as an assertive manager, capable of performing a wide range of people management functions from recruiting through onboarding, goal setting, performance appraisal, training, competency building, resource utilization & capacity planning, and knowledge transfer. Given his contribution over two decades in the Bank, he was conferred the Risk and Information Management Fellow and Hall of Fame – the highest award in American Express.

Dr. Sen holds a Master's in Economics from Jawaharlal Nehru University specializing in Advanced Econometrics, Linear Models, and Industrial Organization and Game theory. He did his Ph.D. in 1999 in the area of Financial Economics from Indira Gandhi Institute of Development Research. His thesis '*The Indian Credit Rating Agency: An Evaluation*' was the first of its kind providing a comprehensive analysis of the quality of ratings of the Indian Credit Ratings Agencies in the 90s. Over time, Dr. Sen has developed deep expertise in areas of Risk Management, Marketing, Regulations, and Machine Learning/Big Data Applications for business problems. At American Express, he was the Chair of the Marketing Modeling Committee responsible for the Governance of all Marketing Models of the Company and defending them to the US Regulators. He had chaired a similar committee in Risk in his prior roles at American Express.

Dr. Sen has a few patents in Machine Learning products and has been an avid speaker at several Machine Learning conferences in India and Abroad.