
A 1 Day AI workshop in Financial Industries

Objectives

By the end of this workshop, participants will be able to:

- Understand how AI and ML are applied in financial services.
- Learn about AI-based risk management, fraud detection, and customer analytics.
- Explore real-world FinTech case studies (banking, payments, insurance, and wealth management).
- Gain hands-on exposure to simple predictive and NLP models using financial datasets.

Workshop Agenda

Session 1: Introduction to AI in FinTech

9:00 AM – 10:30 AM

- Overview of the FinTech ecosystem: banking, payments, insurance, and investments
- What is Artificial Intelligence, Machine Learning, and Deep Learning?
- Why AI is critical for financial innovation
- Global trends: Chatbots, Robo-Advisors, Fraud Detection, Algorithmic Trading
- **Case Study:** How PayPal and Stripe use AI for fraud prevention
- **Activity:** Identify AI opportunities in participants' financial domains

☕ Coffee Break (10:30 AM – 10:45 AM)

Session 2: AI Models and Data in FinTech

🕒 10:45 AM – 12:30 PM

- Key financial data sources: transactions, customer profiles, credit histories, social data
- Feature engineering and preprocessing in financial data
- AI techniques:
 - **Classification:** Fraud detection, credit scoring
 - **Regression:** Loan default prediction, risk modeling
 - **NLP:** Chatbots, sentiment analysis for customer service
- **Hands-on Exercise:**
Build a simple **credit risk prediction** model using Python (scikit-learn)

🍴 Lunch Break (12:30 PM – 1:30 PM)

Session 3: AI Applications in Financial Domains

🕒 1:30 PM – 3:00 PM

- **Banking:** Loan approval automation, anti-money laundering (AML)
- **Payments:** Fraud analytics, transaction monitoring
- **WealthTech:** Robo-advisors, algorithmic trading, portfolio optimization
- **InsurTech:** Claims automation, risk-based pricing

- **RegTech:** Compliance automation using AI
- **Mini Demo:** NLP chatbot for financial FAQs using open-source tools

☕ **Tea Break (3:00 PM – 3:15 PM)**

Session 4: Future Trends and Implementation Strategies

🕒 **3:15 PM – 5:00 PM**

- Building an AI-enabled FinTech solution: workflow and architecture
- Cloud, APIs, and data security considerations
- Ethics, fairness, and transparency in AI-based finance
- **Group Activity:**
Design an AI use case (e.g., credit scoring, insurance fraud detection)
- Discussion: Challenges in data privacy and regulatory compliance
- Q&A and certificate distribution

Tools & Software Used

- **Python (Jupyter Notebook)** – scikit-learn for ML
- **Power BI / Tableau** – for financial data visualization
- **ChatGPT / OpenAI API (Demo)** – for customer interaction use cases
- **Sample datasets:** Credit scoring, loan approval, or transaction fraud data

Target Audience

- Banking & finance professionals
- FinTech startups and developers
- Data scientists and analysts
- University students (Finance / Data Science)
- Consultants and policy experts in financial inclusion

Instructor: Mr Suresh Tripathi is a founder of Geosun Pty Ltd an Australian company registered in year 2000 to provide AI corporate training, data center solutions and data pipeline end-to-end cloud platform. He has nearly 25+ years of work experience in digital data analytics integrated with AI and tech platforms. His education qualifications include master degree in Statistics from India, master degree in Geostatistics from Australia and master degree in Geoscience from Australia. He completed his AI certificate courses from Stanford Business School from California and High Impact Leadership from Cambridge University, UK. He has worked in Australia and US focusing his career on data strategy, tech platforms, and developing in-house training. He has worked with range of industries in Australia and US that include Deloitte, Flybuys, Ambulance Victoria, CFA (Emergencies Services), Avexa, Covance, Avance Clinical (Pharmaceuticals), Intelligen, Commonwealth Bank, Hackett Group (US), Health and Safety Sphera Solutions(US), Vic Government (Environment, water and energy), Waste Management (US), Outfront Media (US), Adani Mining (Australia) and Fura Gems Industries (Dubai).

Fee: Rs 25,000 per participant plus GST payable to GeosunAI Tech Cloud Pvt Ltd. RTGS/Cheque/ PhonePe via below link form.

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