Advanced AI for Banking and Financial Technology Training Course



30 Nov - 04 Dec 2026

Madrid

5900 € (Per Person)

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Course Introduction / Overview:

This course provides a comprehensive exploration of Artificial Intelligence (AI) and its transformative impact on the banking and financial technology (FinTech) sectors. In an era where data is the new currency, mastering AI applications is no longer an option but a necessity for maintaining a competitive edge. This program is meticulously designed to bridge the gap between theoretical AI concepts and their practical, real-world implementation in financial services. Participants will delve into machine learning models, natural language processing, predictive analytics, and their roles in revolutionizing everything from customer service to high-stakes investment decisions. Drawing on insights from seminal works like "The AI Book: The Artificial Intelligence Handbook for Investors, Entrepreneurs and FinTech Visionaries," the curriculum emphasizes strategic thinking. BIG BEN Training Center has developed this course to empower professionals to not only understand AI but to strategically deploy it for enhanced efficiency, robust risk management, and innovative product development. We will navigate the complexities of AI-driven fraud detection, algorithmic trading, credit scoring, and the emerging landscape of regulatory technology (RegTech), ensuring a holistic and forward-looking learning experience.

Target Audience / This training course is suitable for:

- Financial Analysts and Investment Professionals.
- Banking Operations Managers.
- FinTech Entrepreneurs and Innovators.
- IT Managers and Technology Officers in Financial Institutions.
- Risk Management and Compliance Officers.
- Wealth Managers and Financial Advisors.
- Product Development Managers in Banking.
- Corporate Finance Executives.

Target Sectors and Industries:

- Commercial and Retail Banking.
- Investment Banking and Capital Markets.
- Asset and Wealth Management.
- Financial Technology (FinTech) and Startups.
- Insurance and InsurTech.
- Credit Unions and Lending Institutions.
- Government Financial Regulatory Bodies.
- Private Equity and Venture Capital Firms.

Target Organizations Departments:

- Finance and Accounting.
- Risk Management and Analytics.
- Information Technology (IT) and Digital Transformation.
- Compliance and Legal.
- Operations and Customer Service.
- Investment Strategy and Trading.
- Product and Service Development.
- Corporate Strategy and Innovation.

Course Offerings:

By the end of this course, the participants will have able to:

- Develop a strategic framework for integrating AI into financial operations.
- Implement machine learning models for credit scoring and loan underwriting.
- Utilize advanced AI techniques for real-time fraud detection and prevention.
- Analyze the impact of AI on algorithmic trading and portfolio management.
- Deploy AI-powered chatbots and personalization engines to enhance customer experience.
- Evaluate the ethical implications and biases inherent in financial AI models.
- Navigate the regulatory landscape of AI in finance (RegTech).
- Leverage predictive analytics for financial forecasting and market trend analysis.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, practical, and highly interactive, moving beyond traditional lecture-based learning. This course employs a blended approach that combines expert-led instruction with hands-on application. Participants will engage with real-world case studies from leading global financial institutions, dissecting both successful AI implementations and cautionary tales. A significant portion of the training is dedicated to collaborative workshops and group projects, where attendees will work together to design a prototype AI solution for a common financial challenge, such as fraud detection or customer segmentation. Interactive simulations will allow participants to experience the dynamics of AI-driven trading and risk assessment in a controlled environment. Throughout the course, there will be continuous opportunities for Q&A sessions and peer-to-peer feedback, fostering a dynamic learning community. Our focus is on ensuring that participants leave not just with knowledge, but with the confidence and practical skills to apply AI strategies effectively within their own organizations.

Course Agenda (Course Units):

Unit One: Foundations of AI in the Financial Sector

- Introduction to Artificial Intelligence, Machine Learning, and Deep Learning.
- The evolution of AI and its historical impact on finance.
- Understanding the data ecosystem in banking and FinTech.
- Core concepts of predictive analytics and statistical modeling.
- Ethical considerations and bias in financial AI.
- The business case for AI adoption in financial institutions.
- Key terminology and concepts for financial professionals.

Unit Two: AI Applications in Banking Operations and Customer Experience

- Robotic Process Automation (RPA) for back-office efficiency.
- AI-powered chatbots and virtual assistants for customer service.
- Personalization engines for banking products and marketing.
- Machine learning models for intelligent loan underwriting.
- AI in payment processing and transaction monitoring.
- Optimizing branch operations and resource allocation with AI.
- Case studies of AI-driven operational excellence in banking.

Unit Three: Machine Learning for Risk Management and Fraud Detection

- Developing advanced credit scoring models with machine learning.
- Utilizing AI for market risk and operational risk analysis.
- AI-driven techniques for Anti-Money Laundering (AML) compliance.
- Real-time anomaly and fraud detection systems.
- Predictive analytics for identifying emerging financial threats.
- AI's role in enhancing cybersecurity within financial networks.
- Regulatory Technology (RegTech) and automated compliance reporting.

Unit Four: AI in Investment, Trading, and Wealth Management

- Introduction to algorithmic and high-frequency trading strategies.
- The role of AI and machine learning in robo-advisors.
- Using Natural Language Processing (NLP) for market sentiment analysis.
- AI-driven portfolio optimization and asset allocation models.
- Predictive modeling for stock market and economic forecasting.
- AI applications in asset valuation and due diligence.
- Exploring the synergy between AI and blockchain in trade finance.

Unit Five: The Future of FinTech and Strategic AI Implementation

- The impact of Generative AI on financial product innovation.
- Developing a comprehensive AI strategy and roadmap for a financial firm.
- Building and managing data science teams in a financial context.
- Navigating the evolving global regulatory landscape for AI in finance.
- The future of AI in promoting financial inclusion.
- Measuring the Return on Investment (ROI) of AI projects.
- Capstone Project: Presenting an AI implementation plan for a specific financial challenge.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

As AI models become more autonomous in financial decision-making, how can institutions ensure accountability and transparency, especially when complex 'black box' algorithms are involved?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by focusing on the strategic intersection of artificial intelligence and financial business acumen, rather than offering a purely technical or coding-centric curriculum. While many programs concentrate on the mechanics of algorithms, our approach is tailored for financial professionals, managers, and decision-makers who need to understand how to leverage AI for tangible business outcomes. We bridge the critical gap between data scientists and executive leadership. The curriculum is built around a rich collection of real-world case studies, exploring the practical challenges and strategic triumphs of AI implementation in global banking and FinTech leaders. Furthermore, the course places a strong emphasis on the ethical and regulatory dimensions of AI in finance, a crucial aspect often overlooked. Participants will not just learn what AI can do; they will learn how to build a business case, develop a strategic implementation roadmap, manage AI-driven projects, and navigate the complex compliance landscape, equipping them with a holistic and immediately applicable skill set.