Advanced Artificial Intelligence in Data Analysis

21 – 25 November 2027
Amman (Jordan)



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Introduction

In today's data-driven world, the importance of artificial intelligence AI in shaping business strategies and enhancing decision-making processes cannot be overstated. This advanced AI training course dives deep into the most advanced AI technologies and their transformative applications in data analysis. Participants will explore cutting-edge AI algorithms, advanced techniques, and practical applications that drive business performance and provide a competitive edge.

Designed for senior and middle management professionals, this advanced artificial intelligence course equips participants with the knowledge and skills to apply AI frameworks effectively, develop robust strategies, and lead successful AI initiatives. By the end of the course, attendees will be prepared to leverage advanced AI and analytics to extract valuable insights from data and optimize organizational outcomes.

Course Objectives

This course aims to enable participants to:

- Understand the importance of artificial intelligence and its role in data analysis.
- Explore advanced AI techniques and their application across the data value chain.
- Analyze and implement advanced AI algorithms and frameworks.
- Build expertise in AI strategy frameworks and lead successful AI projects.
- Address ethical considerations and integrate responsible AI practices.
- Evaluate the required skills for adopting advanced AI technology.
- Develop strategies for AI governance and risk management.
- Engage in hands-on workshops to design and deploy scalable AI systems.

Course Outlines

Day 1: Foundations of Artificial Intelligence

- Overview of what is advanced artificial intelligence and its evolving landscape.
- Exploring the anatomy of AI systems: neural networks, natural language processing NLP, and computer vision.
- Latest advancements in AI deep learning technologies.
- Ethical considerations and building responsible AI frameworks.



Day 2: Advanced Machine Learning Techniques

- Deep dive into reinforcement learning: Principles and real-world applications.
- Advanced unsupervised learning techniques: Clustering and anomaly detection.
- Introduction to transfer learning and multi-task learning for complex data problems.
- Cutting-edge advancements in generative AI models such as GANs and VAEs.

Day 3: Knowledge Graphs and Reasoning Systems

- Designing and building knowledge graphs to represent intricate data relationships.
- Implementing reasoning systems for AI-driven decision support.
- Exploring Explainable AI XAI for transparent and justifiable decisions.
- Case studies on applying AI algorithms for data analysis in real-world scenarios.

Day 4: Big Data Analytics with AI

- Using AI frameworks to process large datasets at scale.
- Exploring distributed machine learning for large-scale data analysis.
- Integrating AI with cloud-native technologies for scalable, high-performance analytics.
- Hands-on session: Applying AI algorithms in Python for big data.

Day 5: AI Governance and Risk Management

- Understanding bias, fairness, and transparency in AI algorithms.
- Securing AI-powered systems: Best practices in AI cybersecurity.
- Compliance and legal implications of advanced AI in various industries.
- Managing organizational risks and designing strategies for AI governance.

Why Attend This Course: Wins & Losses!

- Master the most advanced AI techniques and their real-world applications in data analysis.
- Develop expertise in AI frameworks and advanced AI algorithms to lead innovative projects.
- Gain practical experience through AI workshops and hands-on sessions with industry experts.
- Learn how to address ethical challenges, ensure fairness, and manage AI-related risks effectively.
- Understand how to use AI strategy frameworks to build scalable, data-driven solutions.

Conclusion

This advanced artificial intelligence course is your gateway to mastering AI for data analysis and gaining insights into types of AI algorithms, AI governance, and practical applications. Whether you aim to build a solid foundation in AI strategy frameworks, explore the latest in AI deep learning, or lead impactful AI initiatives, this course equips you with the tools and knowledge needed to excel in the evolving AI landscape.

By joining this course, you will be empowered to transform your organization with the best artificial intelligence practices, drive data-driven decisions, and stay ahead in an increasingly AI-driven world.

