Generative AI for Business Intelligence Analysts Training Course

Professional Development Training Course Outline

Category	Business Intelligence	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Generative AI is revolutionizing the landscape of Business Intelligence by enabling analysts to transform complex datasets into actionable insights with unprecedented speed and accuracy. Generative AI for Business Intelligence Analysts Training Course empowers professionals to harness advanced AI-driven tools for predictive analytics, automated reporting, and intelligent decision-making. Participants will gain practical skills in deploying AI models that enhance data visualization, streamline workflows, and drive data-informed strategies across organizations. By combining theoretical knowledge with hands-on applications, this course ensures BI analysts are fully equipped to leverage AI technologies for maximum business impact.

The course focuses on the integration of Generative AI in real-world business scenarios, emphasizing ethical AI practices, data governance, and scalable AI solutions. Participants will learn how to design, implement, and optimize AI-driven dashboards, predictive models, and data storytelling techniques that provide strategic insights. Through interactive case studies and project-based learning, BI analysts will develop the ability to anticipate market trends, improve operational efficiency, and deliver actionable intelligence that supports organizational growth. This training positions BI professionals at the forefront of innovation, bridging the gap between traditional analytics and cutting-edge AI capabilities.

Programme Curriculum

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Course Objectives

1. Understand core concepts of Generative AI and its applications in Business Intelligence
2. Implement AI-driven predictive analytics for data-driven decision-making
3. Design and automate dashboards using Generative AI tools
4. Develop advanced data visualization strategies to enhance insight delivery
5. Leverage AI for anomaly detection and real-time reporting
6. Apply natural language processing for data querying and insights generation
7. Integrate Generative AI into existing BI platforms and workflows
8. Ensure ethical AI deployment and adherence to data governance standards
9. Enhance strategic business decision-making with AI-generated insights
10. Optimize BI processes for efficiency and scalability using AI
11. Utilize AI for scenario analysis and forecasting
12. Conduct AI-powered data storytelling for stakeholder communication
13. Evaluate AI model performance and continuously improve BI solutions

Organizational Benefits

- Accelerated data analysis and reporting processes
- Enhanced predictive accuracy for business forecasting
- Reduced manual effort in dashboard and report generation
- Improved data-driven decision-making across departments
- Streamlined business intelligence workflows
- Increased operational efficiency and productivity
- Ability to anticipate market trends and business challenges
- Strengthened data governance and ethical AI use
- Competitive advantage through AI-powered insights
- Better stakeholder engagement via AI-enhanced data storytelling

Target Audiences

1. Business Intelligence Analysts
2. Data Analysts and Data Scientists
3. BI Managers and Team Leads
4. Analytics Consultants
5. Business Strategists and Decision-Makers
6. Data Engineers seeking AI integration

7. IT Professionals supporting BI platforms
8. Professionals transitioning to AI-driven analytics

Course Duration: 10 days

Course Modules

Module 1: Introduction to Generative AI in Business Intelligence

- Overview of Generative AI concepts and frameworks
- Key AI technologies impacting BI workflows
- Introduction to AI-powered data analytics tools
- Ethical considerations and data governance in AI
- Case study: Generative AI implementation in a retail BI project
- Hands-on exercise: Exploring AI datasets

Module 2: Data Preparation and Preprocessing for AI Models

- Data cleaning and normalization techniques
- Handling missing data and outliers
- Feature engineering for AI models
- Introduction to AI-friendly data formats
- Case study: Data preprocessing for financial forecasting
- Practical session: Preparing a sample BI dataset

Module 3: Predictive Analytics Using Generative AI

- Building predictive models for business outcomes
- Time-series forecasting and trend analysis
- Risk and opportunity analysis using AI
- Model evaluation and validation techniques
- Case study: AI-driven sales forecasting for an e-commerce company
- Hands-on project: Building a predictive model

Module 4: AI-Driven Dashboard Design

- Principles of AI-enhanced visualization
- Dynamic dashboards and automated reporting
- KPI selection and performance tracking with AI
- Interactive visualization techniques
- Case study: Dashboard automation in healthcare analytics
- Practical session: Creating an AI-driven dashboard

Module 5: Advanced Data Visualization Techniques

- Visual storytelling for executive reporting
- AI-powered chart and graph selection
- Integrating multiple data sources visually
- Improving decision-making with visual insights
- Case study: AI-based visualization for marketing analytics
- Hands-on exercise: Multi-source dashboard creation

Module 6: Natural Language Processing for BI

- Introduction to NLP concepts for data querying
- Generating insights using AI-powered language models
- Automating report summaries with NLP
- AI-driven sentiment and trend analysis
- Case study: NLP in customer feedback analytics
- Practical activity: Implementing NLP queries in BI

Module 7: AI for Anomaly Detection and Real-Time Reporting

- Detecting anomalies and outliers with AI models
- Monitoring KPIs in real-time
- Automated alerts and reporting workflows
- Case study: Fraud detection in banking using AI
- Hands-on activity: Setting up anomaly detection in dashboards
- Integration of real-time alerts for business decisions

Module 8: Integration of AI into BI Platforms

- Connecting AI models to BI software and tools
- Workflow automation and AI orchestration
- Cloud-based AI deployment strategies
- Case study: Integrating AI with Tableau and Power BI
- Practical session: Linking AI models with BI platforms
- Best practices for platform integration

Module 9: AI-Powered Scenario Analysis

- Scenario planning using generative AI models
- Business impact simulations and forecasting
- Sensitivity and what-if analysis using AI
- Case study: AI for supply chain optimization
- Hands-on exercise: Running scenario simulations
- Evaluating AI outputs for decision-making

Module 10: Ethical AI Deployment and Governance

- Principles of responsible AI in BI
- Regulatory compliance and data privacy
- Bias detection and mitigation in AI models
- Case study: Implementing ethical AI in a global enterprise
- Practical session: Audit AI outputs for fairness
- Governance framework development for BI AI

Module 11: AI-Enhanced Data Storytelling

- Structuring insights for stakeholders
- Crafting narratives with AI-generated visuals
- Communicating complex data simply
- Case study: AI storytelling in retail performance reporting
- Hands-on project: Create an AI-powered story for management

- Best practices for stakeholder engagement

Module 12: Model Performance Evaluation and Optimization

- AI model accuracy and reliability metrics
- Hyperparameter tuning and model optimization
- Continuous monitoring of AI models in BI
- Case study: Improving predictive model accuracy in finance
- Practical activity: Evaluate and refine a BI AI model
- Deploying models for scalable organizational use

Module 13: AI-Driven Automation in BI

- Automating repetitive BI tasks with AI
- Workflow optimization for efficiency
- Scheduling AI-powered reports and alerts
- Case study: Automating KPI reporting in retail operations
- Hands-on session: Implement AI automation in a sample workflow
- Monitoring and maintaining automated processes

Module 14: Advanced AI Techniques for BI Analysts

- Deep learning applications for BI
- Generative models for synthetic data creation
- AI-driven pattern recognition in datasets
- Case study: Deep learning for marketing trend prediction
- Practical exercise: Implement a deep learning workflow in BI
- Analyzing AI model results for actionable insights

Module 15: Capstone Project and Case Study Implementation

- Applying learned skills in a comprehensive project
- End-to-end AI model development for BI analytics
- Case study: Enterprise-wide AI deployment in sales intelligence
- Presenting AI-driven insights effectively
- Peer review and feedback sessions
- Final project submission and evaluation

Training Methodology

- Interactive lectures with real-world examples
- Hands-on lab sessions with industry-standard AI tools
- Guided case studies for practical application
- Group discussions and collaborative exercises
- Scenario-based problem solving and simulations
- Continuous assessment and feedback

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

Ready to enroll or request a customized program? Book online or contact us:

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