

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Business Intelligence and Analytics

Introduction to Business Intelligence (BI)

- Overview of Business Intelligence: Definition, benefits, and evolution
- Role of BI in Decision Making and Business Strategy
- Components of BI Architecture: Data sources, ETL (Extract, Transform, Load), data warehousing, reporting, and analytics

Data Fundamentals for BI

- Introduction to Data Management: Data governance, quality, integration, and cleansing
- Data Warehousing Concepts: Star schema, snowflake schema, data mart
- Data Modeling: Dimensional modeling, OLAP (Online Analytical Processing), data cubes

ETL Processes in BI

- Extracting Data: Data extraction techniques and tools
- Transforming Data: Data transformation techniques (cleaning, aggregation, normalization)
- Loading Data: Loading techniques and strategies into data warehouses or data marts

BI Tools and Platforms

- Overview of BI Tools: Tableau, Power BI, QlikView, MicroStrategy
- Comparing BI Tools: Features, capabilities, and suitability for different use cases
- Hands-on with BI Tools: Creating reports, dashboards, and visualizations

Data Visualization Techniques

- Principles of Data Visualization: Visual perception, effective storytelling
- Designing Effective Dashboards: Layout, interactivity, usability
- Advanced Visualizations: Heatmaps, treemaps, geographical maps

Reporting and Analytics

- Types of BI Reports: Operational reports, ad-hoc reports, analytical reports
- Analytical Techniques: Descriptive, diagnostic, predictive, prescriptive analytics
- Advanced Analytics: Machine learning, AI-driven analytics, forecasting

Advanced BI Concepts

- Big Data Analytics: Introduction to Hadoop, Spark, and NoSQL databases
- Real-time BI and Streaming Analytics: Implementing real-time data processing
- Mobile BI: Designing BI solutions for mobile devices

Data Mining and Text Analytics

- Introduction to Data Mining: Clustering, association analysis, classification
- Text Analytics: Sentiment analysis, text mining techniques
- Implementing Data Mining Models in BI Solutions

Performance Management and KPIs

- Key Performance Indicators (KPIs): Definition, selection criteria, and measurement
- Implementing Balanced Scorecards and Dashboards: Aligning KPIs with business objectives
- Performance Management Frameworks: OKRs (Objectives and Key Results), SMART goals

BI Deployment and Governance

- BI Project Management: Planning, execution, and monitoring BI projects
- BI Governance: Policies, security, compliance, and data privacy
- Change Management in BI Implementations: Handling resistance and ensuring adoption

Business Intelligence Case Studies and Applications

- Industry Use Cases: Examples from retail, healthcare, finance, etc.
- Case Studies: Analyzing successful BI implementations and lessons learned
- Practical Applications: Applying BI techniques to solve business problems

Emerging Trends in BI and Analytics

- AI-driven BI: Cognitive analytics, natural language processing (NLP)
- IoT (Internet of Things) Analytics: Leveraging IoT data for BI insights
- Blockchain in BI: Use cases and implications for data integrity

Business Intelligence

- Overview of BI Certifications: Tableau, Microsoft Power BI, Qlik Sense certifications
- Certification Exam Tips and Resources
- Career Development in Business Intelligence and Analytics