



SPYPRO SECURITY SOLUTIONS Pvt. Ltd.,

C Y B E R S E C U R I T Y

5-Day Workshop on Power BI with Generative AI

Day 1: Power BI & Data Fundamentals

Session 1: Introduction to Power BI

- What is Power BI? Importance & business use cases
- Power BI ecosystem (Desktop, Service, Mobile)
- Connecting to data sources (Excel, CSV, Database)
- Data loading & basic transformations

Hands-On

- Installing Power BI Desktop
 - Importing datasets
 - Creating basic charts & tables
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Session 2: Data Cleaning & Modeling

- Power Query Editor basics
- Data cleaning & transformation
- Data modeling & relationships
- Star schema concept

Hands-On

- Cleaning raw data
 - Creating relationships between tables
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Day 2: DAX & Dashboard Development

Session 1: DAX Fundamentals

- Introduction to DAX
- Calculated columns & measures
- Common DAX functions (SUM, COUNT, IF, CALCULATE)

- KPIs & business metrics

Hands-On

- Writing DAX measures
 - Creating KPIs & metrics
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Session 2: Advanced Visualizations

- Power BI visuals & customization
- Filters, slicers & drill-through
- Interactive reports & storytelling

Hands-On

- Designing interactive dashboards
 - Implementing drill-down analysis
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Day 3: Power BI Service & Automation

Session 1: Power BI Service

- Publishing reports to Power BI Service
- Dashboards & workspaces
- Data refresh & scheduling
- Sharing & access control

Hands-On

- Publishing reports to cloud
 - Sharing dashboards securely
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Session 2: Performance & Optimization

- Report performance best practices
- Optimizing DAX & visuals
- Managing large datasets

Hands-On

- Optimizing slow dashboards
 - Improving report performance
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Day 4: Generative AI Integration

Session 1: Generative AI in Power BI

- Introduction to Generative AI concepts
- Power BI Copilot overview
- AI visuals & smart insights
- Natural language Q&A

Hands-On

- Using Copilot to generate insights
 - Asking questions in natural language
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Session 2: AI-Driven Business Use Cases

- Power BI + Gen AI in business analytics
- Automated narratives & summaries
- Predictive insights overview

Hands-On

- Creating AI-generated report summaries
 - Business insights using AI
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Day 5: Project Development & Future Scope

Session 1: Project Development

- End-to-end dashboard development
 - Applying DAX, visuals & AI features
 - Best practices in BI reporting
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Session 2: Presentation & Closing

- Project demos & presentations
 - Challenges & solutions discussion
 - Future trends: AI-Driven Analytics, Copilot, Auto Insights
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Capstone Project Example

AI-Powered Business Analytics Dashboard

- **Data Sources:** Excel / CSV / Database
 - **Features:** Interactive dashboards , DAX-based KPIs , AI-generated insights & narratives , Natural language Q&A

Tools Used:

- Power BI Desktop
 - Power BI Service
 - DAX
 - Generative AI (Copilot, AI visuals)
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Closing Session

- Certificates distribution
 - Feedback & Q&A