



**SPYPRO SECURITY SOLUTIONS Pvt. Ltd.,**

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

## **3-Day Workshop on Power BI with Generative AI**

### **Day 1: Introduction to Power BI**

#### **Session 1: Core Java Basics**

- What is Power BI & its real-world applications
- Power BI ecosystem (Desktop, Service, Mobile)
- Connecting to different data sources
- Data loading & basic transformations

#### **Hands-On Activity**

- Installing Power BI Desktop
- Importing Excel / CSV data
- Creating basic tables & charts

#### **Session 2: Data Modeling & DAX Basics**

- Understanding data models & relationships
- Introduction to DAX (Data Analysis Expressions)
- Calculated columns & measures
- Basic KPIs & filters

#### **Hands-On Activity**

- Creating measures using DAX
- Building interactive dashboards

### **Day 2: Advanced Power BI & Visualization**

#### **Session 1: Advanced Visualizations**

- Power BI visuals & customization
- Slicers, filters & drill-through
- Interactive reports & storytelling
- Performance optimization basics

## **Hands-On Activity**

- Designing professional dashboards
- Implementing drill-down & slicers

## **Session 2: Power BI Service & Automation**

- Publishing reports to Power BI Service
- Dashboards & workspaces
- Data refresh & scheduling
- Introduction to Power BI automation

## **Hands-On Activity**

- Publishing reports to cloud
- Sharing dashboards securely

## **Day 3: Generative AI Integration & Project**

### **Session 1: Generative AI in Power BI**

- Introduction to Generative AI concepts
- AI visuals in Power BI
- Using Copilot & AI insights
- Natural Language Q&A (Ask Questions)

## **Hands-On Activity**

- Generating insights using AI visuals
- Using AI to create narratives & summaries

### **Session 2: Real-World Application & Project Building**

- Power BI + Gen AI in business analytics
- Use cases: Sales, Finance, HR analytics
- Best practices for AI-driven dashboards

## **Project**

**Task:** Build an AI-Powered Power BI Dashboard

**Data Sources:** Excel / CSV / Database

**Features:** Interactive dashboards , DAX-based KPIs ,AI-generated insights , Natural language queries

### **Tools Used:**

- Power BI Desktop
- Power BI Service
- DAX
- Generative AI features

## **Closing Session:**

- Presenting projects
- Q&A and feedback