Create a Data-Driven Strategy: Build a Unified Data Ecosystem with Microsoft Fabric and Synapse Analytics

Overview:
This training session is designed to help non-profit organizations harness the power of data to drive decision-making, improve donor engagement, and measure impact effectively. Participants will learn how to build a unified data ecosystem using **Microsoft Fabric** and **Azure Synapse Analytics**. The session will cover the fundamentals of these tools, their key components, and how they can be integrated to create a seamless data strategy. Attendees will also explore practical use cases, such as data integration, AI-driven insights, and visualization, tailored specifically for non-profits. By the end of the session, participants will have a clear understanding of how to leverage these Microsoft technologies to transform their data into actionable insights.

Duration: 1 Hour

Target Audience:

- **Non-profit leaders and decision-makers:** Executive directors, program managers, and board members who want to understand how data-driven strategies can improve organizational outcomes.

- **Data and IT professionals in non-profits:** Data analysts, IT managers, and technical staff responsible for managing data systems and infrastructure.

- **Fundraising and donor engagement teams:** Professionals focused on improving donor relationships and optimizing fundraising efforts.

- **Program and impact evaluation teams:** Staff responsible for measuring and reporting the impact of non-profit programs.

- **Anyone interested in data-driven strategies:** Individuals looking to learn how Microsoft tools can help non-profits achieve their mission more effectively.

Pre-requisites:
To get the most out of this session, participants should have:

✓ **Basic understanding of data concepts:** Familiarity with terms like data integration, data governance, and analytics.

✓ **Awareness of non-profit operations:** Knowledge of common non-profit challenges, such as donor management, program tracking, and impact reporting.

✓ **Interest in Microsoft technologies:** No prior experience with Microsoft Fabric or Synapse Analytics is required, but a willingness to learn about these tools is essential.

✓ **Awareness about Microsoft Azure:** Knowledge of cloud concepts and Azure services related to data storage, data integration, and data analytics would be recommended for better understanding of the proposed unified solution.

Content Coverage:

1. Introduction

2. Why Data-Driven Strategies Matter for Non-Profits

   - Improving decision-making.

   - Enhancing donor engagement and fundraising.

   - Measuring and reporting impact effectively.

3. Overview of Microsoft Tools

   - Introduction to Microsoft Fabric

     o Understanding Microsoft Fabric.

     o Key Components:

       ▪ Lakehouse architecture.

       ▪ Fabric Pipelines, Dataflows, and Spark.

       ▪ Fabric Data Warehouse.

       ▪ Real-Time Intelligence.

   - Azure Synapse Analytics for Advanced Analytics

     o Overview of Azure Synapse Analytics.

- o Key Features:
    - Unified analytics service for data integration, warehousing, and big data.
    - On-demand querying and serverless architecture.
    - Integration with Microsoft Fabric for seamless data access.
- Azure AI Foundry (Brief Overview)
    - o Introduction to Azure AI Foundry.
    - o Key Features:
        - Model development and management.
        - Integration with Microsoft Fabric for AI-driven insights.

4. Building a Unified Data Ecosystem

- Data Integration with Microsoft Fabric
    - o Connect disparate data sources.
    - o Create a centralized data lake for analytics.
- Advanced Analytics with Azure Synapse Analytics
    - o Perform large-scale data processing and analytics.
    - o Enable real-time insights and reporting.
- Leveraging AI for Non-Profit Impact
    - o Use AI to analyze behavior and patterns, predict outcomes, and optimize programs.
    - o Automate repetitive tasks.
- Visualization and Reporting with Power BI
    - o Create dashboards to track key metrics.
    - o Share insights with stakeholders