

Power Apps Hackathon

Duration: 32 hrs

Overview:

This curriculum provides a comprehensive, hands-on introduction to Microsoft Power Platform, equipping learners with the skills to design, build, and automate business applications using Power Apps, Dataverse, and Power Automate. Participants will explore the fundamentals of canvas and model-driven app development, dive into low-code techniques with Power Fx, and leverage Copilot for AI-assisted app creation. With a strong emphasis on real-world scenarios, data modeling, and process automation, the course culminates in a practical project that empowers learners to confidently apply their knowledge by building a machine ordering solution end-to-end.

Course Objectives:

In this course, you will learn:

- Fundamentals of Power App
- Creation and Customization of Apps
- Usage and integration of data sources and services through app connections

Course Content:

Module 1- Introduction

- Introduction to Power Platform
- Introduction to Power Apps
- Creating and Setting up Environments
- Types of Apps available to create
- Introduction to Canvas Studio

Module 2 - Experiencing Data Model

- Create and manage tables in Microsoft Dataverse
- Create and manage columns in Microsoft Dataverse tables
- Create relationships between tables in Microsoft Dataverse
- Create and define calculated and rollup columns in Microsoft Dataverse
- Define and create business rules in Microsoft Dataverse

Module 3 – Canvas Application

- Understanding Low Code as a Traditional Developer
- Create a canvas app in Power Apps
- Using and describing controls in a canvas app in Power Apps
- Customize a canvas app in Power Apps
- Navigation in a canvas app in Power Apps
- Introduction to Power Fx
- Canvas components
- Test your Power Apps application

Module 4 – Customizing Canvas App

- Building a new app from a data source
- Add, edit and remove controls
- App Settings
- Publish and Share Apps
- Version History and Restore
- PowerApps Mobile App
- Publish and Share

Module 5 – Model Driven Application

- Introduction to model-driven apps
- Design and create model-driven apps
- Configure forms
- Configure views
- Configure charts
- Configure dashboards
- Create business process flows
- Manage settings and security model-driven app
- CRUD operations in Model Driven apps

Module 6 – Automate your processes with Power Automate

- Overview of Power Automate
- Creating cloud flows with Power Automate
- Triggers and Actions in Power Automate cloud flows
- Creating Approval Flows
- Test and troubleshoot your flows
- Manage connections
- Integrating flows in Power Apps

Module 7 – Get Started with Copilot on Microsoft Power Apps

- Build good prompts
- Create a Table with Copilot
- Modify the Table with Copilot
- Create an Application with Copilot
- Use Copilot to edit your app
- Create Power Fx formulas with Copilot
- Describe and refine your app

Module 8 – Power Fx in Power Apps

- Introduction to Power Fx
- Working with Variables
- Control Behavior with Formulas
- Data Manipulation
- Formulas for UI Customization

Module 9 – Project

- Implementation of Learning Concepts with Practical Application - Create a machine ordering app with Power Apps.