

AI Builder for Power Platform

Course Duration: 16 Hours (2 Days)

Overview

The AI Builder for Power Platform course is an in-depth training program designed for individuals looking to leverage artificial intelligence within the Microsoft Power Platform ecosystem. This course equips learners with the knowledge to use, manage, and deploy AI models that enhance the capabilities of Power Apps and Power Automate. Starting with an Introduction to AI Builder and understanding the AI Builder licensing, the course progresses to different AI Model Types, including both prebuilt and custom options. Learners will get hands-on experience with Prebuilt AI models, and delve into creating Custom AI models, learning about Prediction models, their prerequisites, and how to train and publish them. The course also covers how to integrate Azure Machine Learning models into AI Builder, and how to use these AI models within Power Automate and Power Apps to create intelligent workflows and applications. Lastly, it addresses administration and security aspects of AI Builder, teaching how to manage the AI model lifecycle, monitor data capacity, understand Consumption reports, and configure roles and security. This comprehensive course will enable participants to effectively implement AI solutions within their Power Platform projects, making them proficient in creating smarter business solutions.

Audience Profile

The AI Builder for Power Platform course at Koenig Solutions equips professionals with AI model integration skills for Microsoft Power Apps and Power Automate.

- This course is ideal for:
- Data Analysts and Scientists
- Business Intelligence Professionals
- IT Developers and Programmers
- Power Platform Developers
- AI and Machine Learning Enthusiasts
- Process Automation Specialists
- Solution Architects
- Application Developers
- IT Project Managers
- Business Analysts
- Microsoft Dynamics 365 Consultants
- Software Engineers seeking to expand their skill set into AI
- Technical Team Leads overseeing Power Platform projects
- System Administrators involved in app lifecycle and security
- Professionals working on digital transformation projects

Course Syllabus

Module 1: Overview of AI Builder

Lesson 1: Introduction to AI Builder

- Explore AI Builder in Power Automate
- Explore AI Builder in Power Apps
- Add intelligence to your business
- Learn to use AI Builder

Lesson 2: AI Builder Licensing

- Purchase additional AI Builder capacity
- Paid and trial licenses
- Benefits of a trial license
- Activate an AI Builder trial license

Module 2: AI Model Types

Lesson 1: Modeling with AI Builder

- Overview
- Model types
- Common business scenarios
- Lab 2.1: Business Card Reader

Lesson 2: Model Process

- Build a model
- Train your model
- Manage your model
- Publish your model
- Use your AI model
- Share your AI model
- Distribute your AI model
- Lab 2.2: Identity Document Reader

Module 3: Overview of Prebuilt AI Models

Lesson 1: Introduction to Prebuilt AI Models

- Business Card Prebuilt Model
- Category Classification

- Entity Extraction
- ID Reader
- Invoice Processing
- Key Phrase Extraction
- Language Detection
- Receipt Processing
- Sentiment Analysis
- Text Recognition
- Text Translation
- Lab 3.1: Identity Document Reader

Module 4: Overview of Custom AI Models

Lesson 1: Overview of the Prediction Model

- Binary Prediction
- Multiple Outcome Prediction
- Numerical Prediction

Lesson 2: Prediction Model Prerequisites

- Skills and data required
- Working with sample data
- Creating a custom table
- Lab 4.1: Document Processing

Lesson 3: Training and Publishing a Model

- Train and publish a prediction model
- Exercise: Using sample data for prediction
- Prediction model performance
- Prediction model training errors and warnings
- Running the prediction model
- Lab 4.2: Category Classification

Module 5: Azure Machine Learning Model

Lesson 1: Bring Your Own AI Model into AI Builder

- Create your own model
- Register your own model
- Exercise: Bring Your Own Model Tutorial
- Limitations

Lesson 2: Packaging Your Own Model Using Solutions

- Export a model using a solution
- Import a model into the target environment
- Upgrade a model in the source and target environment
- Stage a model for upgrade

Module 6: AI Builder Model in Power Automate

Lesson 1: Using AI Models in Power Automate

- Overview
- Prerequisites
- Using Prebuilt AI Models in Power Automate
- Using Custom AI Models
- Predict Action
- Lab 6.1: Receipt Processing

Module 7: AI Builder Model in Power Apps

Lesson 1: Using AI Models in Power Apps

- Overview
- Using a prediction model in Power Apps
- Adding AI Builder components and modifying properties
- Lab 7.1: Entity Extraction

Lesson 2: Using AI Builder Models in Canvas Apps

- Requirements
- Selecting a model in Canvas Apps
- Using a model with controls
- Best practices
- Input and output by model type
- Prebuilt models
- Lab 8.1: Text Recognizer

Module 8: Administering and Securing AI Builder

Lesson 1: AI Custom Model and Environment Lifecycle

- Lifecycle states of a model
- Application lifecycle management
- Environment lifecycle

- Backup and restore
- Data Loss Prevention (DLP)
- Moving and copying environments
- Lab 8.1: Prediction

Lesson 2: Monitoring and Managing Data Capacity

- Monitoring usage
- Data storage in Dataverse
- Lab 8.2: Object Detection

Lesson 3: AI Builder Consumption Report

- Viewing and analyzing the consumption report

Lesson 4: Roles and Security in AI Builder

- Roles
- Tables and privileges