



AI+ Data Agent Specialty™

Certification

Executive Summary

This curriculum offers a comprehensive learning path for developing AI data agents, focusing on their role in AI systems, data collection, preprocessing, and machine learning. The program covers both theoretical foundations and hands-on applications using no-code platforms to build AI models. Learners will explore the architecture, ethical considerations, and practical implementations of AI data agents across various industries such as healthcare, agriculture, and retail. Through a series of modules and a capstone project, participants will gain the skills needed to create and deploy intelligent, autonomous data agents capable of making real-time decisions in dynamic environments.

Prerequisites

- Familiarity with data handling, including collection, cleaning, and preprocessing (beneficial but not mandatory).
- No prior coding experience required (hands-on with no-code tools).
- Basic knowledge of data science, algorithms, and decision-making principles (recommended).
- Suitable for professionals or enthusiasts looking to expand their knowledge in AI agent technology and data-driven decision-making.

Exam Blueprint

Number
of Questions

50

Passing
Score

35/50 or 70%

Duration

90 Minutes

Format

**Online via AI
Proctoring platform**

Question Type

**Multiple Choice/Multiple
Response**

Exam Overview

Module	Weight
Introduction to AI Agents	10%
Data Agents and Their Role in AI Systems	15%
Data Collection and Acquisition for AI Data Agents	15%
Data Pre-processing and Feature Engineering	15%
AI and Machine Learning Models for Data Agents	15%
Ethics, Security, and Privacy in AI Data Agents	15%
Capstone Project	15%
	100%

The logo for AI CERTs, featuring a stylized 'AI' in orange and 'CERTs' in black, with a registered trademark symbol.

AI CERTs®

AI⁺
Data Agent
Specialty™

Certification Modules

Module 1

Introduction to AI Agents

1.1 What is an AI Agent?

1.2 Components of AI Agents

1.3 Types of AI Agents

1.4 Hands on: No-Code AI and Machine Learning Models for Data Agents

Module 2

Data Agents and Their Role in AI Systems

2.1 AI Data Agents

2.2 AI vs. AI Data Agent

2.3 Components of AI Data Agents

2.4 Types of AI Data Agents

2.5 Existing AI Data Agents in Trend

Module 3

Data Collection and Acquisition for AI Data Agents

3.1 Steps in AI Data Collection Structure & Plan

3.2 Methods Of Data Collection

Module 4

Data Pre-processing and Feature Engineering

4.1 Data Cleaning and Transformation

4.2 Feature Engineering for AI Models

4.3 No-Code AI Data Agent for Preprocessing & Feature Engineering

Module 5

AI and Machine Learning Models for Data Agents

5.1 Introduction to Machine Learning Models for Data Agents

5.2 Model Selection and Training

5.3 Hands on: No-Code AI and Machine Learning Models for Data Agents

Module 6

Ethics, Security, and Privacy in AI Data Agents

6.1 Ethical Considerations in AI Data Agents

6.2 Security and Privacy Concerns

Capstone Project

7.1 Problem Statement

7.2 Practical Implementation

7.3 Evaluation and Optimization

7.4 No-Code AI and Machine Learning Models for Data Agents

Certification Outcome

Upon successful completion of this curriculum, participants will receive a certificate recognizing their proficiency in building and deploying AI data agents. The certificate demonstrates the participant's ability to autonomously gather, process, and analyze data using AI tools, implement machine learning models, and address key ethical and privacy concerns. Graduates will be capable of designing intelligent, real-time decision-making systems for applications across diverse industries, such as healthcare, retail, and agriculture. The certification signifies mastery of AI data agent development, with a focus on no-code platforms, machine learning, and practical real-world applications.



Market Insight

The AI+ Data Agent Specialty landscape is evolving swiftly, driven by the growing need for intelligent systems that can process, analyze, and interpret vast volumes of data. From automating data pipelines to generating real-time insights, AI-powered data agents are transforming how businesses manage and leverage information. These technologies are enabling faster decision-making, improving data accuracy, and unlocking new efficiencies—making them critical assets in data-centric industries



Value Proposition

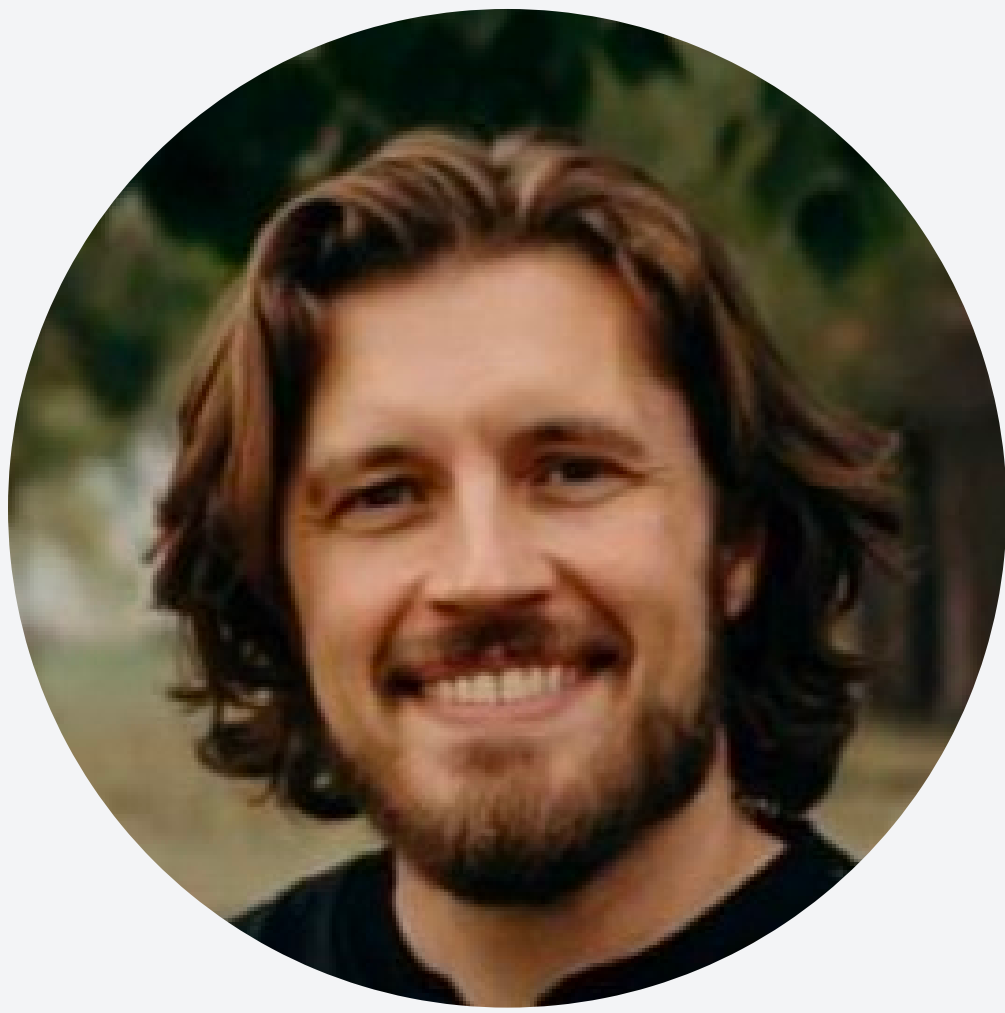
This course empowers professionals to harness data-driven intelligence using AI tools. Participants gain hands-on expertise in collecting, analyzing, and acting on real-time data to drive smarter automation, streamline operations, and unlock actionable insights—positioning them as key enablers of AI transformation across business functions.



Additional Features

The course equips learners with hands-on projects, real-world data challenges, and exposure to advanced AI tools for data analysis, prediction, and automation. Participants also gain practical experience with data pipelines, model training, and deployment using AI-powered data agent frameworks.

AI Experts



Jason Kellington

AI Expert

As a consultant, trainer, and technical writer with more than 25 years of experience in IT, I specialize in the development and delivery of solutions focused on effective and efficient enterprise IT.



Justin Frébault

AI Expert

I'm a boutique data consultant specializing in data mesh and lakehouse solutions. I've dedicated my career to helping organizations transform their approach to data, moving beyond mere knowledge.



J Tom Kinser

AI Expert

I have over forty years of experience in software development, data engineering, management, and technical training. I am a Microsoft Certified Trainer and a software developer, holding multiple certifications.



Terumi Laskowsky

AI Expert

Country Manager for Global Consulting Services in Japan, Specialties: Information Security (Compliance, Policy, Application, Host, Network)



aicerts.ai

Contact

252 West 37th St., Suite 1200W
New York, NY 10018

