



Certified Artificial Intelligence Practitioner

Target Candidate:

This certification exam is designed for practitioners who are seeking to build a vendor-neutral, cross-industry foundational knowledge of AI concepts, technologies, algorithms, and applications that will enable them to become a capable practitioner in a wide variety of AI-related job functions.

Exam Objective Statement:

This exam will certify that the candidate has foundational knowledge of AI concepts, technologies, and algorithms and applications that will enable them to become a capable AI practitioner in a wide variety of AI-related job functions.

Exam topics:

- What is AI?
 - Terminology
 - Human Intelligence
 - Machine Intelligence
 - AI vs cognitive computing
 - Sentience
 - Components:
 - Agents
 - Environment
 - Sensors
 - Effectors
 - Condition-Action Rules
 - History of AI
 - Turing Test
 - John McCarthy
 - Claude Shannon
 - Future of AI
 - Ray Kurzweil
 - Singularity
- Impact of AI
 - Benefits
 - Optimize costs
 - Reduce use of energy, natural resources
 - save time
 - present actions to take from raw data
 - Challenges
 - Social Issues
 - Privacy
 - Safety
 - Legal Liability

- Replacing Humans
- Contemporary trends and business drivers
 - Methods/Applications
- Use cases across different sectors
 - Business Intelligence
 - Social Media
 - Energy
 - Medical
 - Financial,
 - Transportation
 - Manufacturing
- Algorithmic Approaches of AI
 - Gaming Theory
 - Types
 - Machine Learning
 - Types
 - Supervised Learning
 - Unsupervised Learning
 - Reinforced Learning
 - Deep Learning/Deep Neural Networks
 - Types:
 - Feedforward
 - Feedback
 - Expert Systems
 - Definition
 - Purpose
 - Natural Language Processing
 - Definition
 - Purpose
 - Speech Recognition
 - Definition
 - Purpose
 - Image Recognition/Computer Vision
 - Definition
 - Purpose
 - Search Engines and their methods
 - Pattern Matching
 - Decision Trees
 - Deduction
 - Inference
 - Robotics
 - Bots
 - Siri
 - Alexa