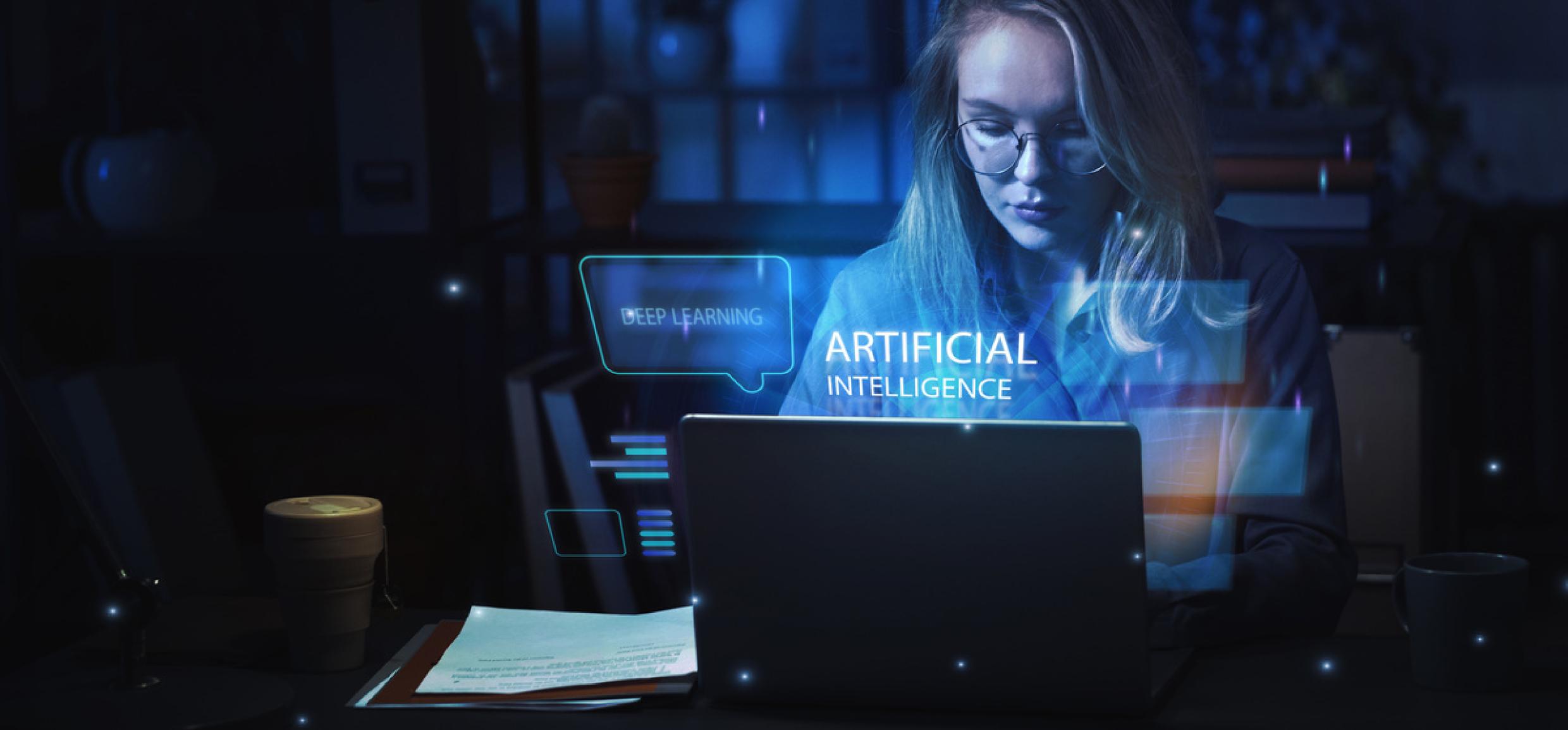


Al Certification Program

Developertm



Executive Summary

Al+ Developer[™] certification program offers a tailored journey in key AI domains for developers. Master Python, advanced concepts, math, stats, optimization, and deep learning. The curriculum covers data processing, exploratory analysis, and allows specialization in NLP, computer vision, or reinforcement learning. The program includes time series

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analysis, model explainability, and deployment intricacies. Upon completion, you'll receive a certification, showcasing your AI proficiency for real-world challenges.



AI+ Developer Exam Blueprint

Date Issued: 1/5/2024 Version: 1.1

Prerequisites

- Basic Math: Familiarity with high school-level algebra and basic statistics is desirable.
- Computer Science Fundamentals: Understanding the basic programming concepts (variables, functions, and loops) and data structures (lists and dictionaries).

Fundamental knowledge of programming skills

A CERTs[™]

AI+ Developer Exam Blueprint

Date Issued: 1/5/2024 Version: 1.1

Exam Blueprint

Number of Questions

Passing Score

35/50 or 70%

Duration

90 Minutes

Format

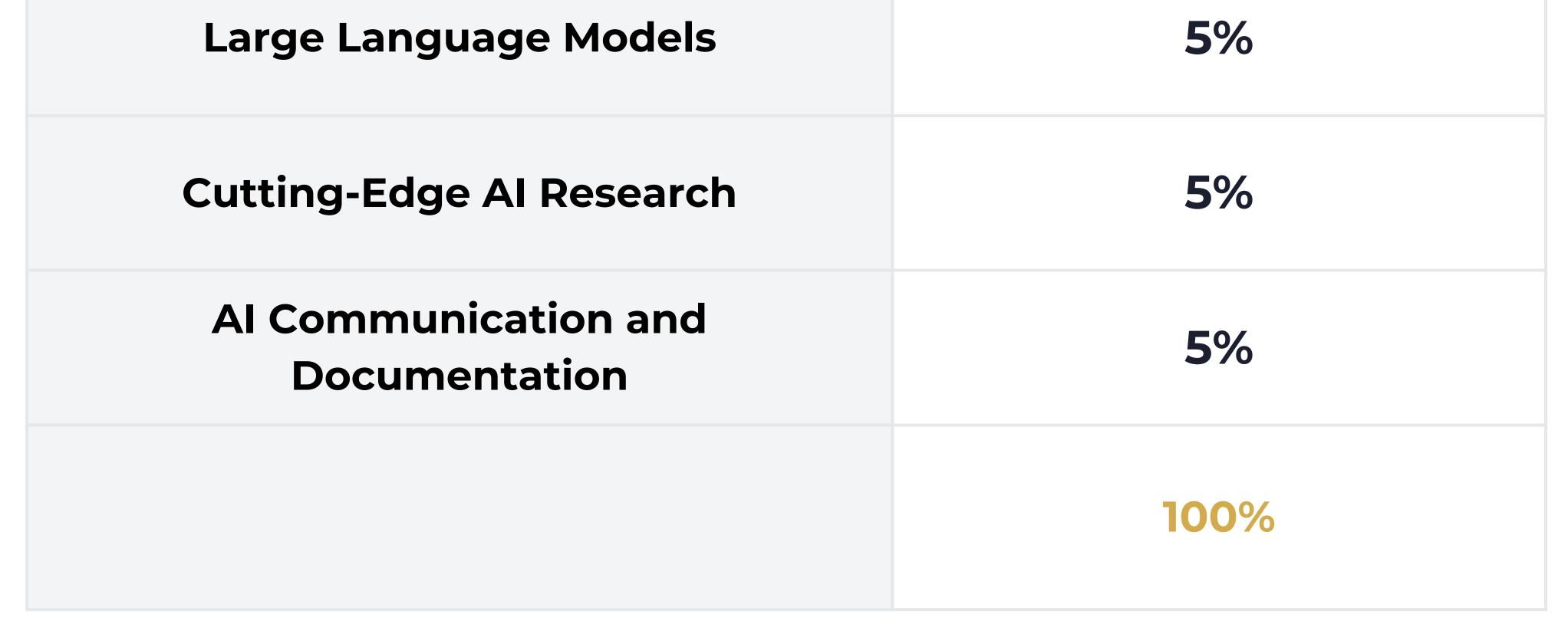
Online via Al Proctoring platform

Question Type

Multiple Choice/Multiple Response

Exam Overview

Module	Weight
Foundations of Artificial Intelligence	3%
Mathematical Concepts for Al	5%
Python for Developer	10%
Mastering Machine Learning	15%
Deep Learning	10%
Computer Vision	10%
Natural Language Processing	15%
Reinforcement Learning	5%
Cloud Computing in AI Development	10%





Certification Modules



Foundations of Artificial Intelligence

1.1 Introduction to AI

1.2 Types of Artificial Intelligence

1.3 Branches of Artificial Intelligence

1.4 Applications and Business Use Cases



Mathematical Concepts for Al

2.1 Linear Algebra

2.2 Calculus

2.3 Probability and Statistics

2.4 Discrete Mathematics



Python for Developer

3.1 Python Fundamentals

3.2 Python Libraries



Mastering Machine Learning

4.1 Introduction to Machine Learning

4.2 Supervised Machine Learning Algorithms

4.3 Unsupervised Machine Learning Algorithms

4.4 Model Evaluation and Selection



Deep Learning

5.1 Neural Networks

5.2 Convolutional Neural Networks (CNNs)

5.3 Recurrent Neural Networks (RNNs)



Computer Vision

6.1 Image Processing Basics

6.2 Object Detection

6.3 Image Segmentation

6.4 Generative Adversarial Networks (GANs)



Natural Language Processing

7.1 Text Preprocessing and Representation

7.2 Text Classification

7.3 Named Entity Recognition (NER)

7.4 Question Answering (QA)



Reinforcement Learning

8.1 Introduction to Reinforcement Learning

8.2 Q-Learning and Deep Q-Networks (DQNs)

8.3 Policy Gradient Methods



Cloud Computing in AI Development

9.1 Cloud Computing for Al

9.2 Cloud-Based Machine Learning Services



Large Language Models

10.1 Understanding LLMs

10.2 Text Generation and Translation

10.3 Question Answering and Knowledge Extraction



Cutting-Edge Al Research

11.1 Neuro-Symbolic Al

11.2 Explainable AI (XAI)

11.3 Federated Learning

11.4 Meta-Learning and Few-Shot Learning





Al Communication and Documentation

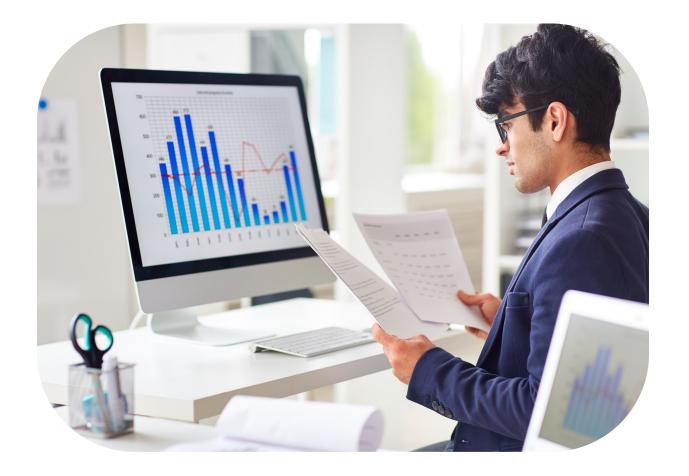
12.1 Communicating AI Projects

12.2 Documenting Al Systems

12.3 Ethical Considerations

Certification Outcome

This certification program provides a thorough exploration of artificial intelligence's core domains, tailored specifically for developers. It covers everything from fundamental Python mastery to advanced topics, including mathematics, statistics, optimization techniques, and deep learning. Participants delve into data pre-processing, exploratory data analysis, feature engineering, selection, and dimensionality reduction. They can specialize in NLP, computer vision, or reinforcement learning. The program also includes time series analysis, model explainability, and model deployment intricacies. Upon completion, participants receive certification, affirming their expertise in pivotal AI areas, priming them for real-world challenges and innovations.



Market Insight

As artificial intelligence becomes increasingly pervasive across various industries, there is a growing demand for AI developers who possess the skills to harness it's transformative potential. This specialized AI developer certification program has been meticulously crafted to align with the evolving needs of established tech giants and emerging AI startups in this dynamic field.



Value Proposition

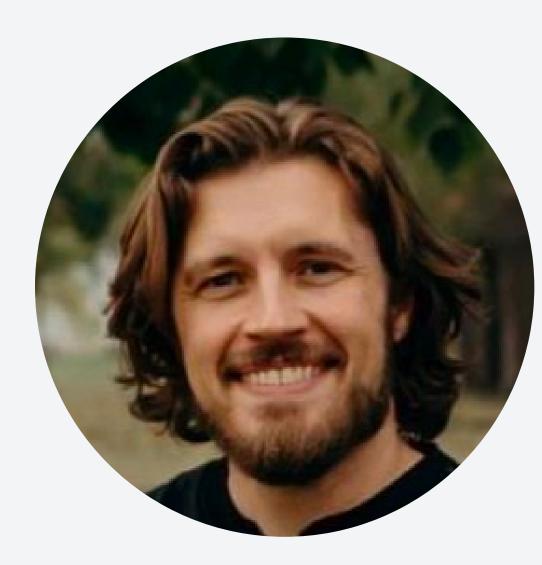
Participants in this program will not only gain proficiency in fundamental AI concepts but also acquire advanced technical skills essential for the successful implementation of AI solutions in realworld applications. This certification empowers AI developers with the knowledge and expertise needed to excel in the competitive world of AI development.



Additional Features

Interactive Sessions: Engage in discussions with industry experts and peers. Hands-on Exercises: Practical tasks to apply learned concepts in realworld scenarios. Case Studies: Dive deep into real business challenges and Al-driven solutions. Post-Certification Support: Access to a community of Al experts and enthusiasts for continuous learning and networking.

Al 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

Al Expert

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

AI & BITCOIN CERTIFICATIONS!

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