



Certified Game AI Developer

Vskills Certifications

Vskills Brochure



Skills for a secure future

Certified Game AI Developer

In video games, artificial intelligence (AI) is used to generate responsive, adaptive or intelligent behaviors primarily in non-player characters (NPCs) similar to human-like intelligence. Artificial intelligence has been an integral part of video games

The term "game AI" is used to refer to a broad set of algorithms that also include techniques from control theory, robotics, computer graphics and computer science in general, and so video game AI may often not constitute "true AI" in that such techniques do not necessarily facilitate computer learning or other standard criteria, only constituting "automated computation" or a predetermined and limited set of responses to a predetermined and limited set of inputs. The certification acts as a proof of your skills on professional social media like LinkedIn and for better job prospects.

Why should one take this certification?

This Course is intended for professionals and graduates wanting to excel in their chosen areas. It is also well suited for those who are already working and would like to take certification for further career progression.

Earning Vskills Game AI Developer Certification can help candidate differentiate in today's competitive job market, broaden their employment opportunities by displaying their advanced skills, and result in higher earning potential.

Who will benefit from taking this certification?

Job seekers looking to find employment in game development companies, or students generally wanting to improve their skill set and make their CV stronger and existing employees looking for a better role can prove their employers the value of their skills through this certification.

Test Details

- **Duration:** 60 minutes
- **No. of questions:** 50
- **Maximum marks:** 50, Passing marks: 25 (50%)

There is no negative marking in this module.

Fee Structure

Rs. 3,499/- (Excludes taxes)*

*Fees may change without prior notice, please refer <http://www.vskills.in> for updated fees

Table of Contents

1. Artificial Intelligence in Games

- 1.1 Basics of AI
- 1.2 Exploring the Zero-Sum Games
- 1.3 Using the Minimax Algorithm
- 1.4 Create Your Own Tic-Tac-Toe Game with AI

2. Decision Trees in Games

- 2.1 What Is a Decision Tree?
- 2.2 Implementing Decision Trees in Your Game
- 2.3 Decision Trees for General Logic and AI Behavior
- 2.4 Writing a Battle City-Like Game AI
- 2.5 Putting It All Together - A Battle City-Like Game

3. Applying Finite-State Machines (FSM)

- 3.1 What Is a Finite-State Machine?
- 3.2 Implementing Finite State Machines
- 3.3 State Machines for General Logic and AI Behavior
- 3.4 Applying FSM Basis to the Pac-Man-Like Game

4. Movement and Pathfinding

- 4.1 Graphs for Pathfinding
- 4.2 Navigation Graphs
- 4.3 Implementing Graphs and Navigation Graphs
- 4.4 Pathfinding Algorithms
- 4.5 Implementing A*

5. Path Planning and Game Deployment

- 5.1 Path Planning
- 5.2 Point of Visibility in Use
- 5.3 Path Planner
- 5.4 Implementing a Path Planner Class
- 5.5 Putting It All Together - A Pac-Man-Like Game

Certifications

- ▶ **Accounting, Banking & Finance**
 - Certified GST Professional
 - Certified AML-KYC Compliance Officer
 - Certified Business Accountant
 - Certified BASEL III Professional
 - Certified GAAP Accounting Standards Professional
 - Certified Treasury Markets Professional
- ▶ **Big Data**
 - Certified Hadoop and Mapreduce Professional
- ▶ **Cloud Computing**
 - Certified Cloud Computing Professional
- ▶ **Design**
 - Certified Interior Designer
- ▶ **Digital Media**
 - Certified Social Media Marketing Professional
 - Certified Inbound Marketing Professional
 - Certified Digital Marketing Professional
- ▶ **Foreign Trade**
 - Certified Export Import (Foreign Trade) Professional
- ▶ **Health, Nutrition and Well Being**
 - Certified Fitness Instructor
- ▶ **Hospitality**
 - Certified Restaurant Team Member (Hospitality)
- ▶ **Human Resources**
 - Certified HR Compensation Manager
 - Certified HR Staffing Manager
 - Certified Human Resources Manager
 - Certified Performance Appraisal Manager
- ▶ **Office Skills**
 - Certified Data Entry Operator
 - Certified Office Administrator
- ▶ **Project Management**
 - Certified Master in Project Management
 - Certified Scrum Specialist
- ▶ **Real Estate**
 - Certified Real Estate Consultant
- ▶ **Marketing**
 - Certified Marketing Manager
- ▶ **Quality**
 - Certified Six Sigma Green Belt Professional
 - Certified Six Sigma Black Belt Professional
 - Certified TQM Professional
- ▶ **Logistics & Supply Chain Management**
 - Certified International Logistics Professional
 - Certified Logistics & SCM Professional
 - Certified Supply Chain Management Professional
- ▶ **Legal**
 - Certified IPR & Legal Manager
 - Certified Labour Law Analyst
 - Certified Business Law Analyst
 - Certified Corporate Law Analyst
- ▶ **Information Technology**
 - Certified Angular JS Professional
 - Certified Basic Network Support Professional
 - Certified Business Intelligence Professional
 - Certified Core Java Developer
 - Certified E-commerce Professional
 - Certified IT Support Professional
 - Certified PHP Professional
 - Certified Selenium Professional
- ▶ **Mobile Application Development**
 - Certified Android Apps Developer
 - Certified iPhone Apps Developer
- ▶ **Security**
 - Certified Ethical Hacking and Security Professional
 - Certified Network Security Professional
- ▶ **Management**
 - Certified Corporate Governance Professional
 - Certified Corporate Social Responsibility Professional
 - Certified Leadership Skills Professional
- ▶ **Life Skills**
 - Certified Business Communication Specialist
 - Certified Public Relations Officer
- ▶ **Media**
 - Certified Advertising Manager
 - Certified Advertising Sales Professional
- ▶ **Sales, BPO**
 - Certified Sales Manager
 - Certified Telesales Executive

& many more job related certifications

Contact us at:
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