

1A.

AI can be described as an area of computer science that simulates human intelligence in machines. It's about smart algorithms making decisions based on the available data. Whether it's Amazon's Alexa or a self-driving car, the goal is to mimic human intelligence at lightning speed (and with a reduced rate of error). More reading: What is AI? Everything you need to know about Artificial Intelligence

2A.

An intelligent agent is an autonomous entity that leverages sensors to understand a situation and make decisions. It can also use actuators to perform both simple and complex tasks. In the beginning, it might not be so great at performing a task, but it will improve over time. The Roomba vacuum cleaner is an excellent example of this.

3A.

The open-source modular programming language Python leads the AI industry because of its simplicity and predictable coding behavior. Its popularity can be attributed to open-source libraries like Matplotlib and NumPy, efficient frameworks such as Scikit-learn, and practical version libraries like Tensorflow and VTK. There's a chance that the interviewer might keep the conversation going and ask you for more examples. If that happens, you can mention the following:

- Java
- Julia
- Haskell
- Lisp

4A.

Neural networks in AI mathematically model how the human brain works. This approach enables the machine to think and learn as humans do. This is how smart technology today recognizes speech, objects, and more.