

Answer Key: AI Industry Career Paths

1. In your own words, what does a data scientist do, and why is communication an important part of their job?

Sample Answer:

A data scientist studies large sets of data to find patterns and make predictions, like detecting fraud or suggesting products. Communication is important because they need to explain their results in simple terms to people who may not understand math or coding.

2. What kinds of issues would an AI ethicist focus on, and why are these issues important?

Sample Answer:

An AI ethicist looks at fairness, bias, privacy, and safety in AI systems. These issues matter because if AI is unfair or unsafe, it could hurt people, discriminate against groups, or misuse personal information.

3. Why does the job of a prompt engineer require creativity as well as technical skill?

Sample Answer:

Prompt engineers experiment with different ways of asking questions to get the best responses from AI. Creativity helps them think of new approaches, while technical skill helps them understand how the AI works and how to improve its results.

4. What types of tasks might an AI researcher work on, and where do they usually share their findings?

Sample Answer:

An AI researcher might design new algorithms, test ways to make AI understand language or images, or apply AI to science problems. They usually share their results in research papers, conferences, or scientific journals.

5. Out of the four careers described, which one interests you the most, and what skills do you already have that would help you in that career?

Sample Answer:

(Answers will vary.)

Example: I am most interested in becoming a prompt engineer because I like experimenting with words and being creative. I am good at writing and problem-solving, which would help me design effective prompts.