

Name _____

AI Industry Career Paths

Artificial Intelligence (AI) is not just about building robots or writing computer code. The AI industry has many different types of jobs that require different skills and perspectives. Some focus on numbers and data, others on ethics and responsibility, and others on creativity or research. In this worksheet, you will read about four AI career paths and then answer questions to show what you have learned.



Career Descriptions

1. Data Scientist - A data scientist works with large amounts of information. They look for patterns and use AI tools to make predictions, such as spotting fraud or recommending products. Data scientists need strong math and computer skills, and they also need to explain their findings clearly to people who are not technical experts.

2. AI Ethicist - An AI ethicist studies how AI affects people and society. They ask questions about fairness, safety, and privacy. AI ethicists may help create rules and guidelines to make sure AI systems don't cause harm. This career often combines knowledge of technology with subjects like law, philosophy, or social sciences.

3. Prompt Engineer - A prompt engineer figures out how to write the best instructions for AI systems, such as ChatGPT. They test different ways of asking questions to get accurate or creative results. This career requires problem-solving, clear communication, and creativity, along with some technical understanding.

4. AI Researcher - An AI researcher develops new ideas and systems in the field of artificial intelligence. They work on algorithms, test new approaches, and publish their findings. Researchers may focus on areas like computer vision, natural language, or science problems. This career requires persistence, curiosity, and advanced math and coding skills.

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

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

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

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

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?