

Instructional Scenario

Examining AI Technologies and Applications



Course/Duty Area: Artificial Intelligence Foundations/Examining AI Technologies and Applications

Scenario: Your corporation is looking into ways to further integrate AI technology into its operations. You are tasked with researching ways your competitors are using AI today. You will use your research to report back to your executive board.

Big Question: What benefits and challenges arise from the use of AI technologies?

Focused Questions:

- What technologies are commonly used in industry?
- What are the benefits to the company by using such technology?
- What are the challenges of using artificial intelligence?
- What benefits does the consumer receive from the company's use of AI?
- What additional applications of AI could be used in the future?

Student Project or Outcome: Students will research an industry of their choice (at least two separate companies within the given industry) to learn how they are utilizing AI technology and determine the benefits to the company and consumers. Students will list potential challenges in working with the AI application. Students will identify possible alternatives and additional applications and make predictions about future use.

Project-Based Assessment: Students will prepare a presentation that describes the current use of AI in the industry, along with benefits and challenges, and make a recommendation to the company's executive board about further steps (i.e. targeted additional research, areas of the business that could use improvement) or applications that could be utilized in the future.

Teacher Resources:

- [Industries at a Glance](#), U.S. Bureau of Labor Statistics
- [Examples of Artificial Intelligence \(AI\) in 7 Industries](#), thoughtful.ai
- [Artificial Intelligence \(AI\) Use Cases and Applications](#), Intel