

## Case Study Snapshots - Choosing Small or Big AI Models Answer Key

1. **A teacher in a rural school wants an AI tool to help students practice writing paragraphs. The internet connection at school is very slow.**
  - Best choice: **Small Model**
  - Explanation: Small models can run directly on local devices without needing internet, making them ideal for a school with weak connectivity.
2. **A global company needs an AI assistant that can translate documents into ten different languages with high accuracy.**
  - Best choice: **Big Model**
  - Explanation: Big models are trained on more languages and provide greater accuracy for translation tasks.
3. **A college student wants a study helper that can summarize articles quickly on their personal laptop without needing Wi-Fi.**
  - Best choice: **Small Model**
  - Explanation: Small models are fast, efficient, and can run on personal devices without internet access.
4. **A team of medical researchers needs detailed explanations of complex scientific papers and advanced reasoning about biology.**
  - Best choice: **Big Model**
  - Explanation: Big models are designed to handle complex reasoning and advanced technical subjects.
5. **A small bakery wants a customer chatbot that can answer simple questions about hours and menu items.**
  - Best choice: **Small Model**
  - Explanation: The task is simple and does not require advanced reasoning, so a small model is more affordable and efficient.
6. **An author wants help brainstorming creative story ideas in multiple styles and voices.**
  - Best choice: **Big Model**
  - Explanation: Big models generate more nuanced and varied creative outputs, making them better for storytelling.