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Fine-tuning is an important phase in enhancing the abilities of generative AI models, making them adept at specific tasks. By introducing additional data to these powerful models, they can be tailored to meet particular requirements, which is invaluable in making AI more effective and efficient. Although this process comes with its challenges, such as the need for significant computational resources and data, the outcome is a more specialized and capable AI system that can bring value to a wide range of applications.

Technical Terms Explained:

Fine-tuning: This is the process of adjusting a pre-trained model so it performs better on a new, similar task. It's like teaching an experienced doctor a new medical procedure; they're already a doctor, but they're improving their skills in a particular area.

Catastrophic Forgetting: This happens when a model learns something new but forgets what it learned before. Imagine if you crammed for a history test and did great, but then forgot most of what you learned when you started studying for a math test.

Quiz Question
What does the process of fine-tuning involve?
- Training a model from scratch on new data
- Adjusting a pre-trained model with additional data for a specific task
- Deleting old data from a model to make room for new data

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