



# Apple Utilizes Google's Custom Chips for AI Model Training

## Description

Sundar Pichai and Tim Cook are important people in the tech industry. Apple recently shared that their AI system, Apple Intelligence, was trained using processors from Google instead of Nvidia. This shows that big tech companies are exploring different options for cutting-edge AI training. Apple's choice of Google's Tensor Processing Unit (TPU) was revealed in a technical paper they recently published. They also launched a preview version of Apple Intelligence for some devices.

Nvidia's GPUs are commonly used for high-end AI training but have been hard to come by due to high demand. Other companies like OpenAI, Microsoft, Meta, Oracle, and Tesla are also utilizing Nvidia's GPUs for their AI systems. Apple mentioned in their paper that their models were trained on "Cloud TPU clusters" rented from a cloud provider.

Apple is introducing new features with Apple Intelligence, such as an updated Siri, improved natural language processing, and AI-generated summaries. They plan to add functions like image and emoji generation over the next year. This step by Apple shows their dedication to advancing AI technology.

## Vocabulary List:

1. **Processors** /'prɒsesərz/ (noun): Devices that perform computations or processing tasks in computing systems.
2. **Exploring** /ɪk'splɔːrɪŋ/ (verb): The act of searching for or investigating something in order to learn more about it.
3. **Utilizing** /'juːtɪlaɪzɪŋ/ (verb): To make practical and effective use of something.
4. **Clusters** /'klʌstəz/ (noun): Groups of several things of the same kind that are held or occur together.
5. **Advancing** /əd'vænsɪŋ/ (verb): To move forward in a purposeful way especially in development or progress.
6. **Summaries** /'sʌm.ərɪz/ (noun): Brief statements that present the main points or essential features of a larger document.

## Comprehension Questions

### Multiple Choice

1. Which processors were used by Apple for training their AI system Apple Intelligence?

Option: Nvidia GPUs



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- Option: Google Tensor Processing Unit (TPU)  
Option: Intel processors  
Option: AMD processors
2. What did Apple mention in their technical paper regarding the training of their AI models?
- Option: Models were trained on Apple-owned servers  
Option: Models were trained on "Cloud TPU clusters" rented from a cloud provider  
Option: Models were trained on Nvidia GPUs  
Option: Models were trained on Quantum processors
3. Which companies are also known to utilize Nvidia GPUs for their AI systems?
- Option: Apple Google Amazon  
Option: OpenAI Microsoft Meta Oracle Tesla  
Option: IBM Facebook Netflix  
Option: Samsung LG Sony
4. What new features is Apple introducing with Apple Intelligence?
- Option: Enhanced gaming capabilities  
Option: Improved natural language processing  
Option: Augmented reality features  
Option: Vehicle tracking system
5. What functions does Apple plan to add to Apple Intelligence in the upcoming year?
- Option: Voice recognition  
Option: Image and emoji generation  
Option: Music composition  
Option: Health monitoring
6. What does Apple's use of Google's TPU for AI training demonstrate?
- Option: Lack of expertise in AI hardware  
Option: Exploration of diverse AI training options  
Option: Heavy reliance on Nvidia  
Option: Preference for in-house processors

## Answer

**Multiple Choice:** 1. Google Tensor Processing Unit (TPU) 2. Models were trained on "Cloud TPU clusters" rented from a cloud provider 3. OpenAI Microsoft Meta Oracle Tesla 4. Improved natural language processing 5. Image and emoji generation 6. Exploration of diverse AI training options



## Vocabulary quizzes

### Multiple Choice ( Select the Correct answer for each question. )

1. What is the process of building something called?  
Option: Demolition  
Option: Construction  
Option: Reconstruction  
Option: Destruction
2. What do you call a specific task or goal that a person or group is set to accomplish?  
Option: Goal  
Option: Mission  
Option: Dream  
Option: Aspiration
3. What is a small body of matter from outer space that enters the Earth's atmosphere and becomes incandescent?  
Option: Meteorite  
Option: Comet  
Option: Meteoroid  
Option: Meteor
4. Which term refers to the state of being able to see or be seen?  
Option: Clarity  
Option: Visibility  
Option: Obscurity  
Option: Invisibility
5. What term describes the action of searching or investigating something?  
Option: Explaining  
Option: Investigating  
Option: Exploring  
Option: Analyzing
6. What do you call groups of similar things that are close together?  
Option: Bundles  
Option: Clusters  
Option: Collections  
Option: Clusters



7. What is the ability to understand and share the feelings of another?

- Option: Sympathy
- Option: Empathy
- Option: Compassion
- Option: Understanding

8. Which term describes something that is liable to change rapidly and unpredictably especially for the worse?

- Option: Static
- Option: Volatile
- Option: Stable
- Option: Predictable

9. What term describes something that is important or meaningful?

- Option: Insignificant
- Option: Meaningless
- Option: Significant
- Option: Trivial

10. Which term refers to the state of being stable or not easily changed?

- Option: Consistency
- Option: Stability
- Option: Fluctuation
- Option: Instability

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. \_\_\_\_\_ is the act of making ready or being made ready for use or consideration.

12. The act of using something effectively or making use of something is known as \_\_\_\_\_.

13. The process of making changes to the organization or structure of something for better efficiency is called \_\_\_\_\_.

14. When archaeological sites or materials are dug up methodically it is known as \_\_\_\_\_.

15. To designate or treat something as more important than other things is to \_\_\_\_\_.



16. When something is stressed or given special importance it is \_\_\_\_\_.
17. A framework or structure around which something is built or constructed is called a \_\_\_\_\_.
18. The act of selling goods or property to the highest bidder is known as \_\_\_\_\_.
19. \_\_\_\_\_ refers to going beyond a limit or doing more than expected or allowed.
20. The act of moving forward or making progress in development is called \_\_\_\_\_.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. The company is planning the of its new product next month.
22. The mountain climbers finally reached the after a grueling journey.
23. The beach looked enchanting under the silver glow of the .
24. The students were asked to write of the assigned chapters for their homework.
25. The streaked across the night sky leaving a trail of dust and gas.
26. The enthusiasts gathered to watch the annual hoping to catch a glimpse of shooting stars.
27. Modern computers come with high-speed that enhance their performance.
28. The space agency successfully completed an mission to Mars.
29. Technology is constantly bringing new innovations and developments.
30. The grapes grew in rich on the vines ready for harvest.

## Answer

**Multiple Choice:** 1. Construction 2. Mission 3. Meteor 4. Visibility 5. Exploring 6. Clusters 7. Empathy 8. Volatile 9. Significant 10. Stability

**Gap-Fill:** 11. Preparation 12. Utilizing 13. Restructuring 14. Excavated 15. Prioritize 16. Emphasized 17. Armature 18. Auctioned 19. Exceeded 20. Advancing

**Matching sentence:** 1. Launch 2. Peak 3. Moonlight 4. Summaries 5. Comet 6. Meteor Shower 7. Processors 8. Uncrewed



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## 9. Advancing 10. Clusters

### CATEGORY

1. Sci/Tech - LEVEL2

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