

What is the primary function of a microcontroller in an embedded system?

- Controlling hardware components and processing sensor data
- Mining cryptocurrencies
- Storing massive amounts of data

What is the most significant constraint when implementing a machine learning model on a microcontroller compared to cloud servers?

- Memory space
- Internet connection speed
- Screen size

What is the fundamental difference between a microprocessor and a microcontroller?

- A microcontroller cannot be programmed.
- A microcontroller contains memory, processing power, and interfaces all on a single chip.
- A microprocessor does not contain an arithmetic logic unit (ALU).

Which type of memory is used in a microcontroller to permanently store program code (model)?

- Cache memory
- Flash memory
- Virtual memory

What is the role of a compiler in the development of embedded systems?

- Connecting the microcontroller to the internet
- Designing electronic circuits
- Translating high-level programming code into machine code

