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## **ECS 089L: Ethics in an Age of Technology**

### **Quiz 6**

**November 6, 2024**

***1) One of the four technical developments listed below has NOT been key to the development of data driven AI:***

- a. The rapid expansion of social media, internet use, and smart phones have generated vast amounts of data, text, voice, and images
- b. Data-driven AI uses very simple computations that can be done using GPUs
- c. Quantum sensors can help detect changes in magnetic fields at incredibly small scales, enabling early diagnosis of conditions such as heart disease
- d. The Internet has enabled the low-cost distribution of human work at a massive scale

While quantum sensors are truly a neat new technology, they have nothing to do with data driven AI.

***2) The “elements of AI” discussed in the report relate to:***

- a. Data, deep learning, and large language models
- b. An online course developed by the University of Helsinki and Reaktor (a technology company)
- c. Symbolic logic, expert systems, and data-driven approaches
- d. The impact of AI in Europe

The elements of AI was a large online course.

***3) According to the report, women represent \_\_\_\_\_ of AI researchers:***

- a. More than 50%
- b. More than 25%
- c. Less than 20%
- d. Less than 5%

The report mentions less than one fifth, i.e. less than 20%.

***4) What does the word “anomie” refer to***

- a. A certain form or anemia
- b. An individual's ability to adapt to changing social norms
- c. Lack of the usual social or ethical standards in an individual or group
- d. Lack of interest in ethics classes

***5) According to the report, why might data-driven AI systems present challenges in the field of education?***

- a. They are too expensive for widespread implementation in schools,
- b. They focus primarily on future predictions, ignoring historical data,
- c. They struggle to interpret acts of learning and personal transformation,
- d. They inherently promote creativity.