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CS-370-H5862 Current/Emerging Trends in CS

1-2 Discussion: Introduction to Artificial Intelligence

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Discussion: Introduction to Artificial Intelligence

* **Give an example of an intelligent system. Explain why it is considered an intelligent system.**
* **What is the difference between AI and machine learning?**
* **What are you most excited to learn about in this course?**

Hi peers! Welcome to the first week! My name is Ethan. The intelligent system I would like to discuss is machine learning with semi supervised learning. This type of machine learning takes data that is both labeled and unlabeled. This method combines supervised learning where the system takes data that is entirely labeled and unsupervised learning where the system takes unlabeled data. Currently I work for a major bank that uses a semi-supervised system to detect fraud on credit cards. There is data that’s labeled, transactions that are attempted that the bank knows are fraud and knows to notify people to replace their cards, and there is data that is unlabeled with transactions the system is unsure of and requests customers to verify if this transaction is valid or fraud to determine which decision to make with the transaction.

To explore the differences between AI and machine learning lets first define each. Ai is a computers ability to identify data and mimic a human’s response through various functions and problem-solving techniques. Machine learning is a process of Ai, it’s how an Ai takes modeled data, interprets it, and decides both with and without instruction. The system can then take from these decisions made with machine learning to make future decisions. With this information, the difference being that the Ai is the vehicle with which machine learning is the driver used to make the decisions.

Ai is excellent, its something I’ve always been interested in it from a young age. I think The Terminator movies or Wargames with Matthew Broadrick were my first real experience with a cinematic Ai. Since then and getting some insight into how Ai is currently used I’m interested in how could hope to be used moving forward, what current trends is Ai involved in and how is it evolving with these trends?

In responding to your classmates, compare and contrast your posts. Remember to respond to at least two of your peers.

Hi Dalan! Speech Recognition has exploded I remember my mum in the mid 2000’s trying to set up Dragon talk to text and having the worst possible time with it. Now it’s fairly common to use text to talk or thinking about it I have about 3 google homes around my house. They take my speech and interpret it and return results relatively quick with few errors. I like how you worded that not all Al is machine learning, but all machine learning is AI. Also using brute force can issues down the road especially with false positives.

Hi Jerry! I’m getting close To a BS in computer science, winding down on my last year too I finish next April. I’ve never thought of traffic lights or the systems that run them really to have much to do with Ai, though I suppose that would make a lot of sense especially with adapting to changes to traffic patterns or flow. I wonder if they use any input devices such as camera to track vehicles or if they go off of time of day like for morning or evening rush hours. And can totally agree, I’m happy just having a take away at the end of the day. Knowledge is a power no one can take from you friend.