

## Artificial Intelligence and Machine Learning

- Machine Learning exists between an overlap of Data Science and Artificial Intelligence.
  - I believe this because machine learning is essentially feeding an artificial intelligence program data based on what you're trying to teach it over and over until it starts slowly picking up on what you want it to understand.
    - Similar to human learning hence the name "artificial intelligence."

## My Debate

According to the Merriam Webster, one of the definitions of "synonym" is a "word or phrase that by association is held to embody something." The same definition stated earlier. We are currently at a point where every large and meaningful data science system uses machine learning and vice versa to such a high degree that machine learning is in fact a synonym for data science.

If we reference the Venn diagram on the board we see how data science and AI interlap to form machine learning. If we were to remove the data science circle, a large part of machine learning wouldn't exist, therefore making it nearly impossible for it to exist. So ML's heavy dependence upon data science and the intertwining of their fields doesn't make them exact copies of each other but close enough to the point where they could be understood as the same by many.

## Definitions

- Machine Learning
  - From my understanding, machine learning is a process where you feed an Artificial Intelligence or a "machine" constant data based on what you're trying to teach it to mimic human learning
    - Exists in a "gray zone" between data science and artificial intelligence
- Artificial Intelligence
  - Software created to mimic human intelligence to its greatest potential
    - Is its "own field" and has existed since the beginning of computers
      - The first computer was made to mimic human intelligence
- Data Science

- Data science is also its own field, using computer science, statistical analysis, and other computational methods to infer or learn things from large sets of organized or unorganized data that could be potentially hard to understand on its own