**CS502 - Fall 2022.**

**Graded Board Discussion.**

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**Answer:**

After reading the whole scenario, I’m at the point to say that, conventional sorting algorithms and neural networks are two different types of algorithms that are used for different purposes and comparison between algorithms are not possible in this given scenario.

Sorting algorithms are used to arrange a set of data in particular order, such as ascending or descending order. Some common sorting algorithms include quicksort, merge sort, and heapsort, while Neural Networks are a type of machine learning algorithm that is inspired by the structure and function of the human brain. These algorithms are used for tasks such as image recognition and speech recognition, translation, and predictive modeling etc.

**Factors of an algorithm:**

The efficiency of an algorithm depends on two parameters:

* Time Complexity
* Space Complexity

Given statement about Neural Networks is obviously correct that Neural Networks are learning algorithms which extract insights (or information) from the historical data (or training data) and then use these insights to make predictions about new input data but conventional sorting algorithms and neural networks both are algorithms having their own benefits and functionalities in different fields of Computer Science.

**Conclusion:**

So, it is true and right to say that the conventional sorting algorithms are not obsolete against neural networks. Sorting algorithms are a fundamental concept in computer science, and they are still widely used in a variety of applications.