**Machine learning** is a subset of AI that uses computer algorithms to analyze the data and make intelligent decisions based on what it has learnt without being explicitly programmed.

Machine Learning algorithms are trained with large sets of data and do not follow rules-based algorithms.

**Deep learning** is a specialized subset of machine learning that uses layered neural networks to simulate human decision making. A neural network in AI is a collection of small computing units called neurons that take incoming data and learn to make decisions over time.

Neural networks are often layer-deep and are the reason deep learning algorithms become more efficient as the data sets increase in volume,

as opposed to other machine learning algorithms that may plateau as data increases.

**Difference between Data Science and Artificial Intelligence -**

Data Science is a broad term which is inclusive of the entire data processing methodology, whereas artificial intelligence allows computers to learn how to solve problems and make decisions.

both AI and DS use BDA.