

AI VS ML VS DL

ARTIFICIAL INTELLIGENCE



Artificial intelligence (AI) is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans.

WHAT IT IS USED FOR:

Some of the activities computers with artificial intelligence are designed for include speech recognition, learning, planning, problem solving.

AI

EXAMPLES OF ALGORITHMS

Q-Learning, Actor-Critic Methods, REINFORCE, Deep Deterministic Policy Gradient (DDPG), Multi-Agent Deep Deterministic Policy Gradient (MADDPG)

MACHINE LEARNING



Machine learning is an artificial intelligence (AI) discipline geared toward the technological development of human knowledge.

WHAT IT IS USED FOR:

Machine learning facilitates the continuous advancement of computing through exposure to new scenarios, testing and adaptation, while employing pattern and trend detection for improved decisions in subsequent (though not identical) situations.

ML

EXAMPLES OF ALGORITHMS

Linear Regression, Logistic Regression, K-means Clustering, Decision Trees, Sentiment Analysis, Support Vector Machines

DEEP LEARNING



Deep learning is a collection of algorithms used in machine learning, used to model high-level abstractions in data through the use of model architectures, which are composed of multiple nonlinear transformations.

WHAT IT IS USED FOR:

Deep learning is a specific approach used for building and training neural networks, which are considered highly promising decision-making nodes.

DL

EXAMPLES OF ALGORITHMS

Siamese Networks, Transfer Learning, Recurrent Neural Networks (RNN), Long Short Term Memory Networks (LSTM), Convolutional Neural Networks (CNN), Transformer