

figure 1. illustration of the fundamentals of machine learning and deep learning. machine learning and deep learning are both artificial intelligence techniques, and as such, have the same goal of deriving knowledge from data. however, machine learning is typically applied to data with small number of features and with mostly numerical attributes, while deep learning can be applied to data with complex features and attributes, which can be either numerical or categorical. as illustrated in the figure, machine learning and deep learning require domain knowledge in order to know the "what and how" of the problem domain. the practitioner must also have some domain expertise in order to be able to explain and interpret the model's interpretation. machine learning and deep learning provide a new paradigm for solving many kinds of problems in science and engineering. machine learning and deep learning techniques have been applied to several kinds of problems. for example, in analyzing speech and image data, in predicting social network behaviors, in designing electronic products and services, in understanding transportation systems, in building scalable real-time social networks, and in producing scientific discovery from data. machine learning and deep learning have also been used to solve problems that were previously considered to be "expert problems." these include predicting the risk of natural disasters, classifying anomalies in text and images, predicting protein structure, identifying cancer subtypes and predicting protein-protein interactions. the techniques have been successfully used in solving a wide variety of problems in chemistry, physics, biology, and finance.

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