*Figure 1-1*

*Figure 1-2*

*Figure 1-3*

*Figure 1-4*

*Figure 1-5*

*Figure 1. Different machine learning categories and algorithms [14].*

*Figure 2. Deep learning timeline.*

*model of an artiﬁcial neuron (or processing element) is depicted in Figure 3 in a simpliﬁed*

*multiple neurons are employed in order to reach a conclusion. As can be seen in Figure 4, a*

*as the last layers. Figure 5 is an example of the CNN architecture for image classiﬁcation.*

*Figure 6 depicts a deep learning workﬂow for solving real-world issues. This workﬂow*

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*In Figure 7, we have listed a few possible real-world application domains for deep*

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