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Neural networks are being used to solve all kinds of problems from a wide range of disciplines. Some neural networks work better than others on specific problems and the models are run using continuous, discrete, and stochastic methods. For more information on stochastic methods , the reader is directed to the textbooks at the end of this chapter.

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A neural network is a statistical technique that calculates weights (score points) for predictor characteristics (such as age and income) by self-learning from data examples (such as good and bad loans). It can be trained to detect fraud by reviewing examples of good and fraudulent transactions on a bank ' s portfolio.

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However, by using the deep neural network (DNN) approximation, the DNN is able to get a relatively stable solution without any regularization . Moreover, the structure preserving of the solutions can be easily satisfied, for instance, we can simply apply an exponential function to the output of the NN to ensure the positivity of the solutions. Another promising application using PINN is the hidden fluid mechanics (HFM), which takes advantage of the physics-informed deep learning framework to ...

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