

Classification Using Neural Networks: From Human to Machine Learning

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Abstract

In our daily lives, whether deliberate or not, we use classification very frequently to help us make decisions. For example, we classify tasks, colors and clothing in addition to many other things. In technology and science, we classify cells to identify cancer; classify traits and symptoms to identify diseases. The idea of a neural network model is to simulate the human brain function. When we are given information about an object it serves as an input to the brain. We then use that processed information to identify that same object the next time we see it. In a neural network model, the idea is the same or similar. That is, we use large amounts of data to “teach” the program to identify and classify the specific kind of data. This paper demonstrates the power of neural network using the SAS Enterprise Miner with an example.

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