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This book was designed as an accompaniment to Pattern Recognition, Fourth Edition with additional intuitive descriptions of selected algorithms and Matlab-based problems with solutions. This book is not a replacement for any pattern recognition book, because it lacks any real technical depth, but in conjunction with a complete text (I personally like this book's companion, also by Theodoridis ...

Pattern recognition is a process that taking in raw data and making an action based on the category of the pattern. There are some interesting explanations about the term

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Pattern recognition is the process of recognizing patterns by using machine learning algorithm. Pattern recognition can be defined as the classification of data based on knowledge already gained or on statistical information extracted from patterns and/or their representation. One of the important aspects of the pattern recognition is its application potential.

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