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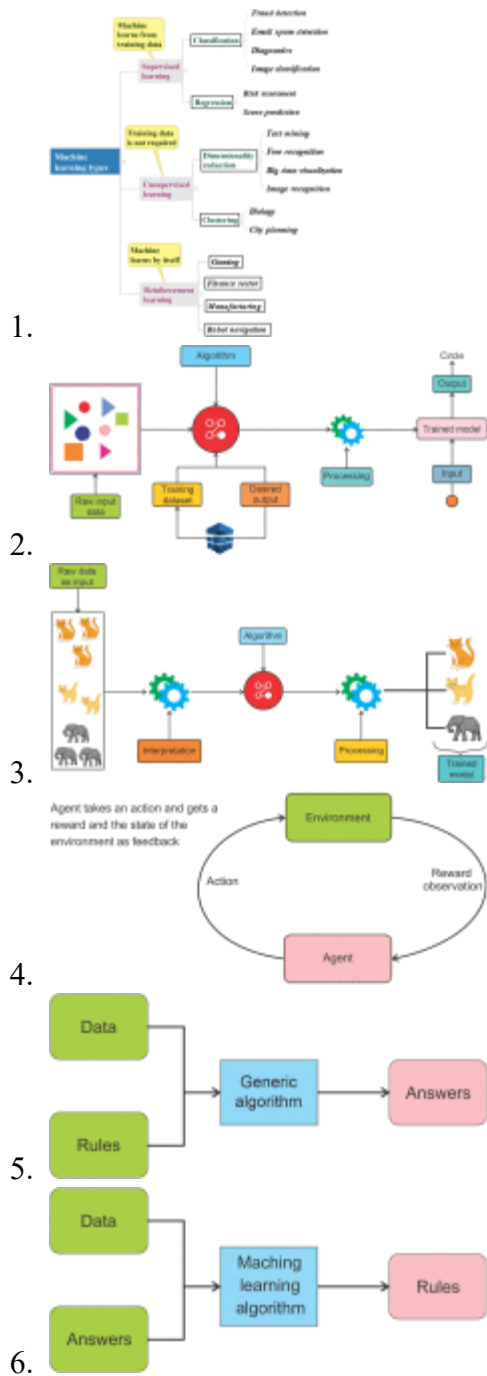
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Chapter 2 - Machine learning in healthcare: review, opportunities and challenges

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Abstract

Machine learning technology is a prominent research field aiming to build a system which imitates human intelligence. Machine learning can be applied in the healthcare domain. It cannot replace human physicians, but it can make better solutions to healthcare problems. Machine learning is the most important area to develop computational approaches automatically. In this chapter, we review the recent literature on applying machine learning technology to promote healthcare solutions. However, we also deliberate limitations, challenges, and opportunities in the healthcare domain using machine learning technology. To monitor and observe the effectiveness of treatment in the healthcare field, machine learning application can be used for diagnosis, prognosis, and perfect treatment plan for the detected disease. Machine learning technology can assist medical practitioner by empowering them with faster and more accurate solutions. In this chapter, readers will find the fundamentals with the progressive developments in the state-of-the-art machine learning-based system for healthcare. However, the evolving nature of medical science and technology creates an innovative scenario that must be studied in an interdisciplinary and holistic way. This chapter aims to obtain novel and quality research-work offerings in healthcare, which are facilitated by the machine learning procedures and techniques. Healthcare industries are focused on enhancing the power of machine learning because it considers a large amount of data daily.

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