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**INNOVATIVE TECHNOLOGIES
IN
COMPUTER SCIENCE**

Innovative Technologies In Computer Science

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Dr. Sheeba Praveen

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Chapter-1

A Smart Disease Prediction System Using Machine Learning Algorithms

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Evolution of modern technologies like data science and machine learning has opened the path for healthcare communities and medical institutions, to detect the diseases earliest as possible and it helps to provide better patient care. Accuracy of detecting the possible diseases is reduced when we do not have complete medical data. Our body shows the symptoms when something wrong is happening within our body, sometime it may be just minor problem but sometimes we can have severe illness and if we do not take care of these symptoms at the early stage then it might be too late to cure the disease. A disease prediction system that can predict the possible diseases based on symptoms so it can be cured at the early stage. In this chapter, machine learning algorithms are used, that try to accurately predict possible diseases. The results generated by the system have an accuracy of up to 87%. The system has incredible potential in anticipating the possible diseases more precisely.

1.1 INTRODUCTION

The Disease Prediction System is a system that is made by the use of machine learning algorithms for guessing the possible diseases based on the patient's symptoms. It provides many tools that can save millions of lives, and machine learning is one of them. Machine Learning is used to develop systems that can help us predict so many diseases based on symptoms. It can suggest the