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**A STUDY OF REASONS FOR ADOPTING MACHINE LEARNING
METHODS IN BUSINESS FORECASTING**

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ABSTRACT

Machine learning's strengths lay on the system's innate pattern recognition ability. Predictive models built using machine learning pore over the information with the same level of detail that a person would, but they do it in a fraction of the time it would take to do the same with an Excel spread sheet. Unsupervised learning is particularly fascinating since it allows you to feed the model any data you choose and have it figure out how the variables are connected, if at all. Example: "people who purchase X (e.g., cheese) also commonly buy Y (ham)" is an example of an association that may be discovered by using machine learning models to analyse sales data from supermarkets, in a process called "Market Basket Analysis. The only way for businesses to operate with any degree of realism in today's unpredictable climate is to change their projections regularly and rapidly. Forecasts made using conventional methods take too long to get accurate results and are rapidly rendered obsolete due to human error. Because to machine learning's speed and efficiency, it can analyse massive data sets in a matter of seconds. As a consequence, you may spend less time waiting and more time analysing the outcomes of your data forecasts. Machine learning algorithms automate most of the tedious labour of forecasting, so you can react quickly to new facts and take prompt action.