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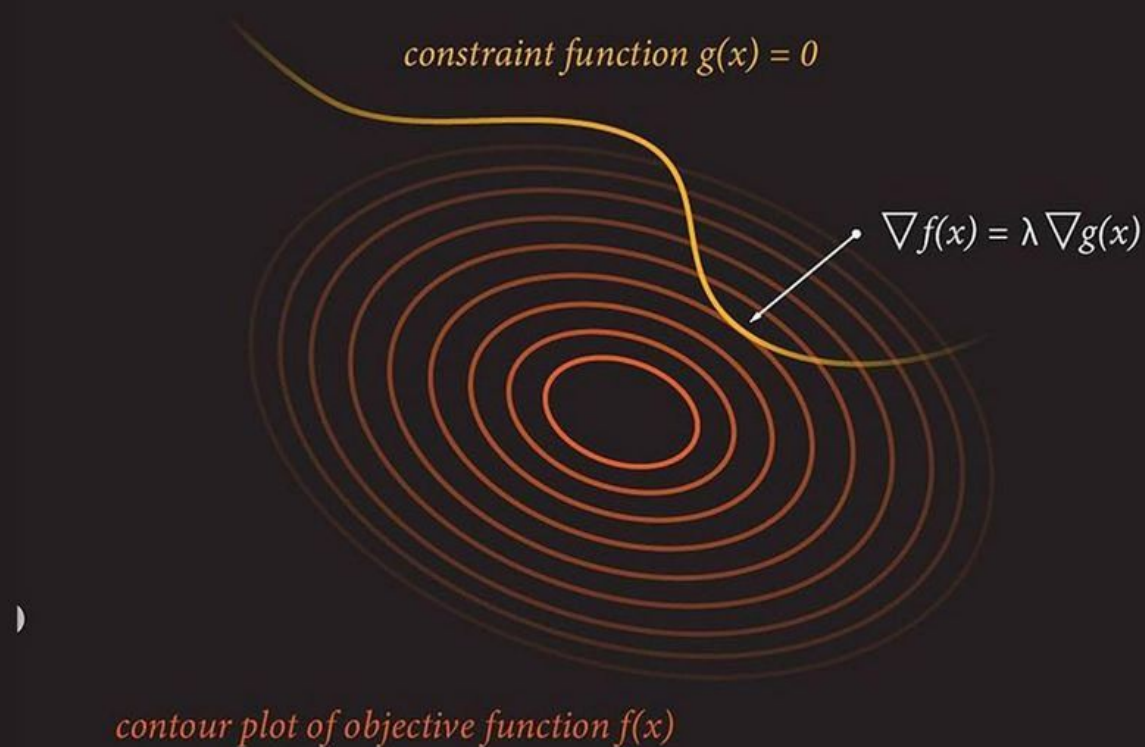
Mathematics is an important foundation for machine learning. Many machine learning algorithms are based on mathematical concepts, and understanding these concepts can help you understand how the algorithms work and how to use them effectively.

Here are some mathematical concepts that are important for machine learning →



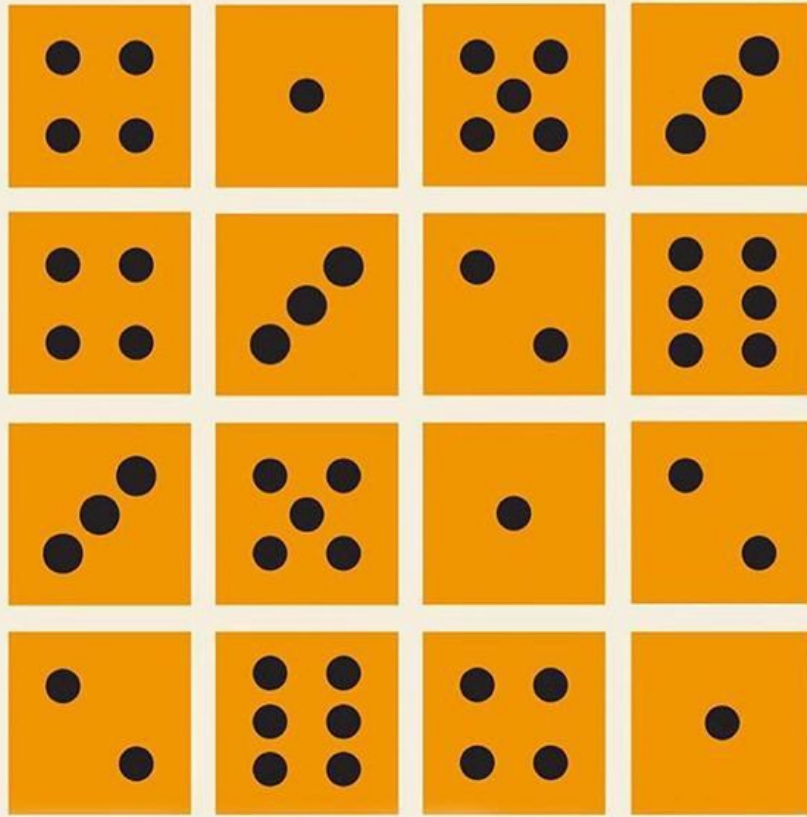
Linear Algebra

This branch of mathematics deals with vectors and matrices, which are used to represent data in many machine learning algorithms.



Calculus

Machine learning algorithms often involve optimization, which requires the use of calculus to find the optimal parameters for a model.



Probability

Probability theory is used to understand the relationships between different variables and to make predictions about future events.

It's not necessary to have a deep understanding of all of these mathematical concepts to use machine learning algorithms, but having a basic understanding of them can be helpful.