UNIT 1

1) What is machine learning? Explain supervised, unsupervised and reinforcement learning? (split into three different question for three different sets)

Answer: -

- Machine learning, from a systems perspective, is defined as the creation of automated systems that can learn **hidden patterns** from data to aid in making intelligent decisions.
- This motivation is loosely inspired by how the human brain learns certain things based on the data it perceives from the outside world. Machine learning is the systematic study of algorithms and systems that improve their knowledge or performance with experience.
- A Machine Learning system learns from historical data, builds the prediction models, and whenever it receives new data, predicts the output for it. The accuracy of predicted output depends upon the amount of data, as the huge amount of data helps to build a better model which predicts the output more accurately.
- Suppose we have a complex problem, where we need to perform some predictions, so instead of writing a code for it, we just need to feed the data to generic algorithms, and with the help of these algorithms, machine builds the logic as per the data and predict the output.
- Two definitions of Machine Learning are offered.

  Arthur Samuel described it as: "The field of study that gives computers the ability to learn from data without being explicitly programmed." This is an older, informal definition.

  Tom Mitchell provides a more modern definition.

Mathematics Of Machine Learning Lecture Notes

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Mathematics Of Machine Learning Lecture Notes:

Mathematics Of Machine Learning Lecture Notes Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Mathematics Of Machine Learning Lecture Notes**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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under analysis. More generally, linguists must be concerned ...