# Introduction

- The transcript is a discussion about machine learning by Luv Aggarwal, a Data Platform Solution Engineer for IBM.

# Definition of Machine Learning

- Machine Learning (ML) is a hot topic that has garnered significant interest from both business professionals and technologists.

- It is a subset within Artificial Intelligence (AI) that focuses on the use of self-learning algorithms to predict outcomes by deriving knowledge from data.

# Terminologies

## AI

- AI refers to the use of computers or machines to mimic the problem-solving and decision-making capabilities of the human mind.

## Machine Learning

- ML is a subset within AI that uses self-learning algorithms to derive knowledge from data in order to predict outcomes.

## Deep Learning

- Deep Learning is a subset within ML that automates the feature extraction process and enables the use of large datasets.

# Types of Machine Learning

## Supervised Learning

- Supervised Learning uses labeled datasets to train algorithms to classify data or predict outcomes.

- Labeled data is data that has been tagged, classified, or labeled in a way that provides information about the data.

- An example of supervised learning in the real world is customer retention, where a classification model is used to identify customers that are likely to churn.

- Another type