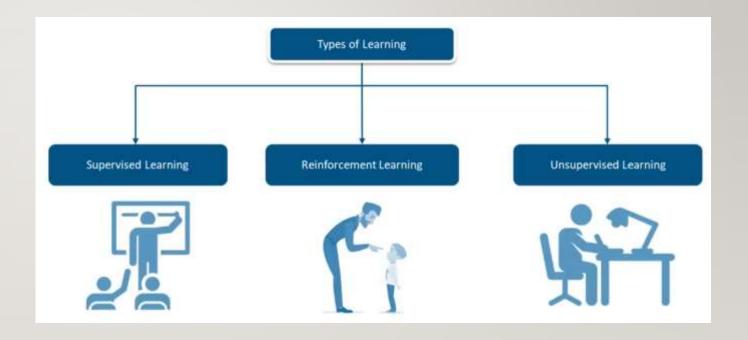
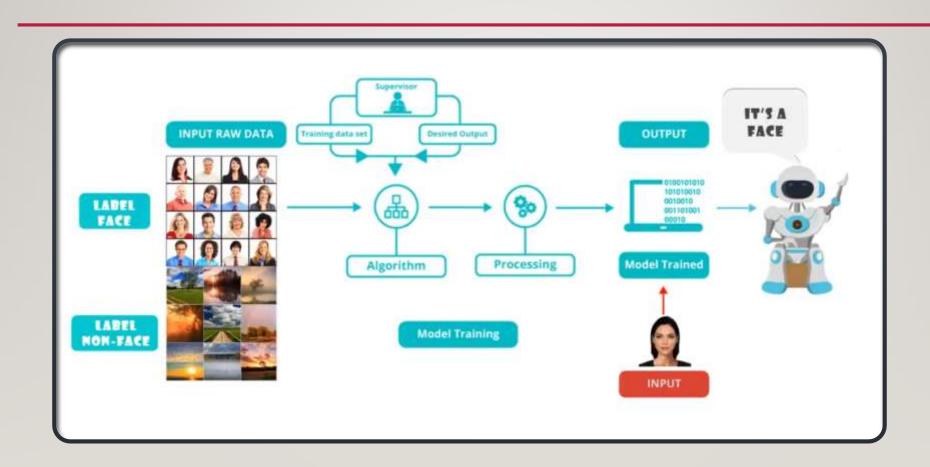
TYPES OF MACHINE LEARNING

TYPES OF MACHINE LEANING ALGORITHMS

- Supervised machine learning algorithms
- Unsupervised machine learning algorithms
- Reinforcement machine
 learning algorithms



SUPERVISED LEARNING(1/2)



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SUPERVISED LEARNING(2/2)

 With the knowledge of a previous set of labelled input and output data, the machine develops a correlation which can predict the outputs for such input values in the near future

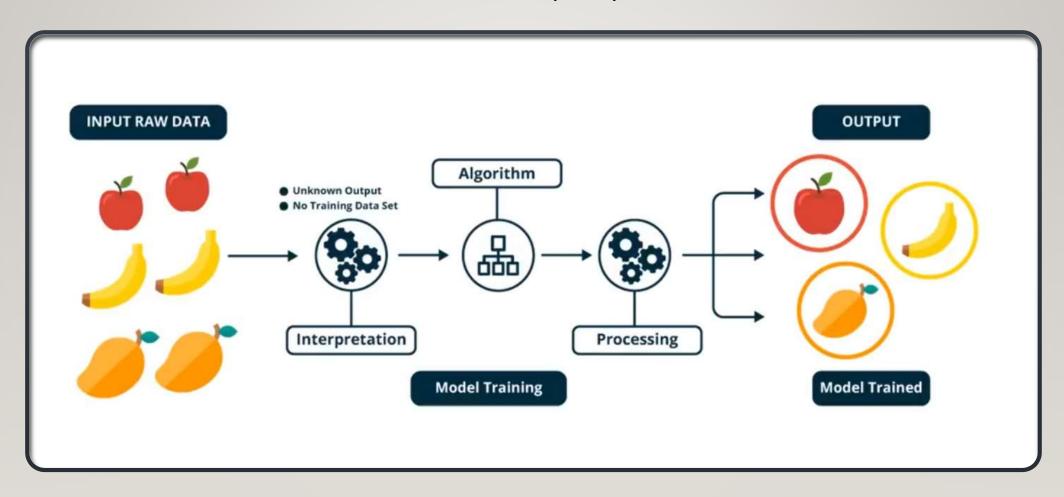
Applications:

- face and speech recognition
- Products/movie recommendations
- sales forecasting

Examples:

- Google Assistant/Cortana can identify your voice once you trained its voice model
- Facebook gives you friend suggestions based on the pics you were tagged in
- DEEPFACE ALGORITHM: Facebooks' image recognition algorithm for photo tagging

UNSUPERVISED LEARNING(1/2)



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UNSUPERVISED LEARNING)2/2)

- With the available set of unlabelled and unstructured data, the machine identifies and infers a hidden pattern of the data
- Ex:
 - Detecting fraudulent bank transactions by grouping the transaction sequential data
 - Amazon's personal product promotion based on recent purchase history

REINFORCED LEARNING

- Allows machines and software agents to automatically determine the ideal behavior within a specific context in order to maximize its performance.
- Ex:
 - PC games like Creatures & Halo series increase the difficulty levels for any specific player once it learns the player stats
 - HALO SERIES also uses the machine learning for prototype testing to increase the user experience

THANKYOU