

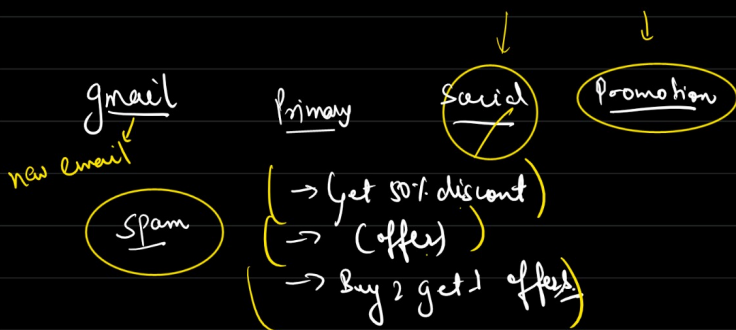
\* What is Machine Learning?

Arthur Samuel - 1959

The subfield of computer science that gives computers the ability to learn without explicitly programmed.

↓  
Pattern in the data

→ Machines learn patterns from the data and replicate the same in future.



Virat Kohli

58

62

63

100

105

110

\* Hope you are ... good.

\* Predictive typing.

\* A computer program is said to learn from Experience E with respect to some class of Tasks T and performance measure P if its performance at task T as measured by P improves with experience E.

↳ Tom Mitchell (1997)

\* Motivations

→ Alexa

→ Credit Card Fraud

→ Sentiment Analysis

→ Autonomous Vehicle.

Task(T) - Classifying an email into spam/ham.

Experience(E) - Watching your label of email.

Performance(P) - The no of emails correctly classified.

Why ML is famous these days?

- Advanced processor
- Data is new oil.

ML style

- Supervised Learning
- Unsupervised learning
- Semi-Supervised learning
- Reinforcement learning

A lot of data



Process this data



(advanced processors)

Valuable Insights



Improves business performance.