* 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 date and replicate the same in future.

Virat Kohli

58
62
63
100
105
110

✓

gmail

Primary

→ Get 50% discount.
→ (offers)
→ (Buy 2 get 1)

Spam or ham

↓

Primary

* 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 tasks in T as measured by P improve with Experience E.

Tom Mitchell - 1997.

task(T) → Classifying an email into Spam/ham.

Experience (E) → watching your label of emails

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

eg Alexa
eg Credit card fraud
eg Sentiment Analysis
eg Autonomous Vehicle

Why ML is famous these day?

→ Advanced Processor.
→ Data is new oil.

A lot of date
⇓
Process this date (advanced processor)
⇓
Valuable Insights
⇓
improve business Performane.

ML types
↓
→ Supervised learing
→ Unsupervised learning
→ Semi-Saupervised
→ Reinforcement learnig.