Real time Systems

Recap   Data models

Traditional Data model

①	flexibility	Based on fixed schema
②	Analytics	**More comprehensive** ↳ **on Sizable Data**
③	Architecture (View)	Working with Centralized Database.
④	Sourcing of Data	less Complex as Data is at rest
⑤	Nature of EDA	Generate insights based on the questions at hand. ⟶ Report generation

BigData Data model

Based on ~~Dynamic~~ schema **accomodates both structured and unstructured data**

⟶ **Data is stored in 'raw' form;**
⟶ **Schema is applied only when accessing it**

Instantanious analytics
↳ as the examples arrive;
analytics is focused on moving Data

working with __Distributed__
↳ Highly Scalable

more Complex Compared to traditional Data model
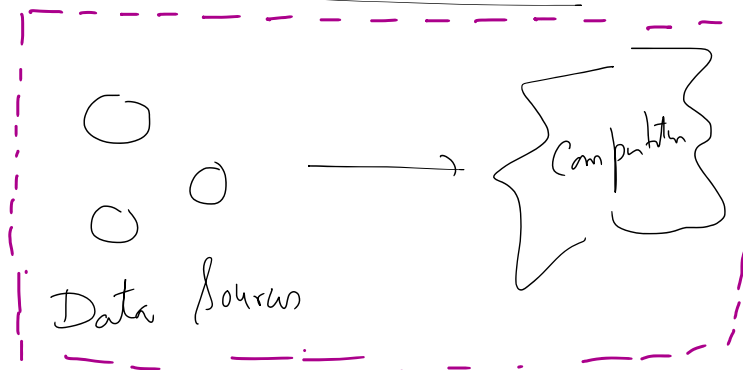↳ multiple Data Sources, Variety of formats
. Data is fast moving

It is iterative and incremental approach
↳ towards preventive maintenance
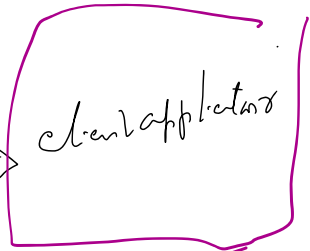↳ Sentiment analysis

STream processing Data

Data Sources

Non / Hard realtime.
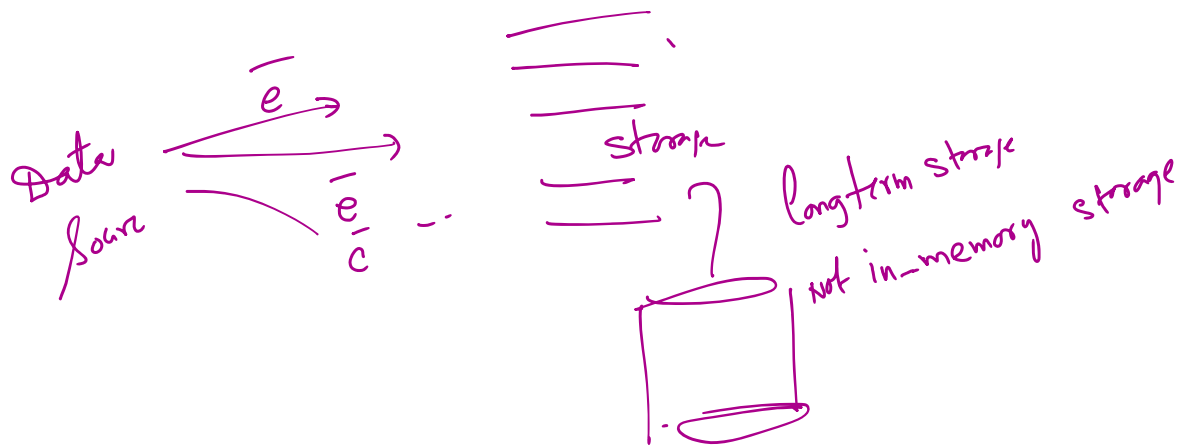
Soft RT
Near RT,

client application

Not necessary be
hard real time

Consumption Can happen based on
Down stream requirements

Data
Source

$\bar{e}$

$\bar{e}$
c

storage

longterm storage
not in-memory storage

Batch processing requires

lot of Storage (for Data)

Data is at rest.