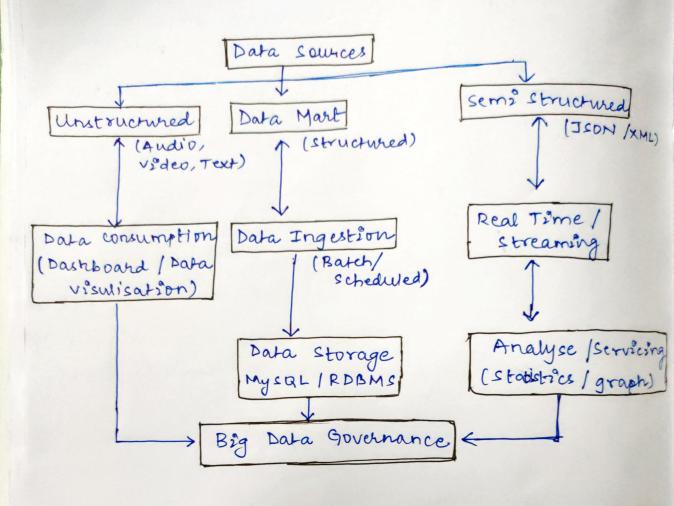
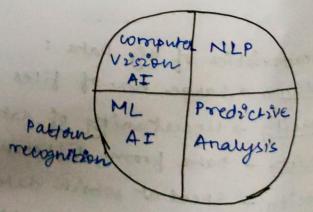
\* Big Data Architecture:



## \* components of Big Data:

- 1 Data capture
- 2 Data storage
- 3 Data Processing
- 4 Data Visualisation



\* outliers are the data which was is not correct.

- \* component technologies of Big Data:
  \*\*

  DApache Hadoop > Open source framework.

  Used in distributed computing.
- DApache Spark open source processing engine can be used with Hadoop.
- BApache Flink > Open source stream processing framework. Used for the streaming of real time data.
- @ Presto -> Open source SQL Engine that supports interactive analysis on huge data set
- 3) Druid > Open source analytical data storage query based based data.
- 16 Map Reduce
- 3 cloudera
- BIBM Big Snsights
- 9 Hourton works
- Doracle Big Data Appliance
- \* features of Big Data:-
- Dava Prepration > used during model construction but before data iteration.
- Data Exploration + visualing things based on given data so maybe using protorial represent -ation.
- 3) scalability -> As size of data increases the resources should also be able to handle this 'For. e.g. + millions were an social media at same time.

should also be considered without compromising efficiency.

- @ supports for various types of analytics > we can use various analysis techniques such as graphs, tabular form, pie chart, star ratings, text ratings.
- (5) version control + with updation in technologies there should be a side by side adaption for the new technologies. Previous versions of code should work with new tech.
- 6 Data Management Couptwie, store and using data with bringing security into picture. Basically managing the huge amount of data
- Data Integration → collecting data from different some useful information.
- 8 > ata Governance → The data should be available, reliable, accurate and easy to use. That's new we can govern the data Access control, enery ptien and decryption.

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Intrusion detection system or firewalls con be used to secure the big data.

9 visualisation + Data defren environment.

Applications of big dara:-Dustomer snepporg behaviour precomendation 3 realth care Traffic control system \*Auditing and Analysis: preduction in operational cost Dimproved De cossion Making grigh austomer retention. g High satisfaction rate gused in various fields like \* Had oop Features: + Hadoup common package contain JAR files and scripts + Package also provides source code, contribution section. \* Hadeop Architecture: ETL Tools BI Reporting RDBMS Pig(Data Flow) Hove (SQL) Map Reduce (Job scheduling/ Execution system) HBase (column DB) Distributed File system)