FACETS OF DATA 7 Identifying the Structure of data.

1. STRUCTURED DATA: = (Predefined)

- * Smutured data is data that depends on a clata model and resides is a fixed field within a record
- * It is easy to store smultured data in tables with in databases or excel files.
- * SOIL or Structured Owery Language is me preferred way to manage and query data that resides in data bases.
- 2. UNSTRUCTURED DATA: (not predefined)

A Unsmitured data is not organised in a pre-defined manner or does not have a pre-defined model, thus it is not a good fit for a mainstream relational database.

* One example & consmictured data is our regular email

- Notinal language is a special type of unstructured data; its challenging to process because it requires knowledge of specific data science techniques and linguistics.
- * Natural language processing is a branch that focuses on teaching Computers how to read and enterpet the text in the same may as humans do.
- * It is a field that is developing methodologies for between Data science & human languages.
- * A Human unitten email is a perfect example of natural language data.

4. MACHINE -MENERATED DATA :-

A Machine data also known as machine generated data, is information that is created without human interaction as a result 8 a computer process or This means that data entered manually by an encluser is not recognized to be machine generated.

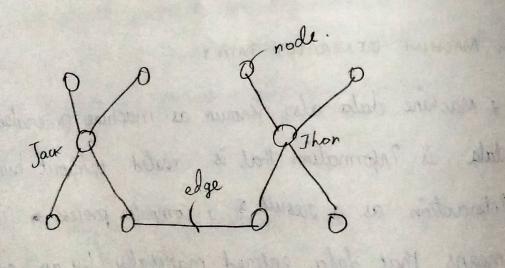
* =g: tickets, Call detail records, allers etc...

5. Graph based or Network data:-

* Graphs are data smotures to describe relationships and Poteractions between entities in Complex systems. * In general, a graph Contains a Collection of entities Called nodes and another Collection & Interactions between a pair of nodes called edges.

* (maph-based data is a natural may to represent Social networks, and its shucture allows us to Social networks, and its shucture allows us to Calculate specific metrics such as the Influence of a person and the shortest parts between two people

Eg: Social Media Websites - > Turitter, Whatsapp Facebooks.



Friends in Soual Network

6. AUDIO IMANE AND VIDEO DATA :-

A The Audio , image and video are different types of data . That pose Specific challenges to data scientists.

* Eg: vido games, graphics.

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7. STREAM ING DATA:-

A Streaming data is data that is generated Confinuously by thousands of data sources, which typically send in the data records stmultaneously and in small sizes.

Eg: Live sporting or music events i stock market.

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