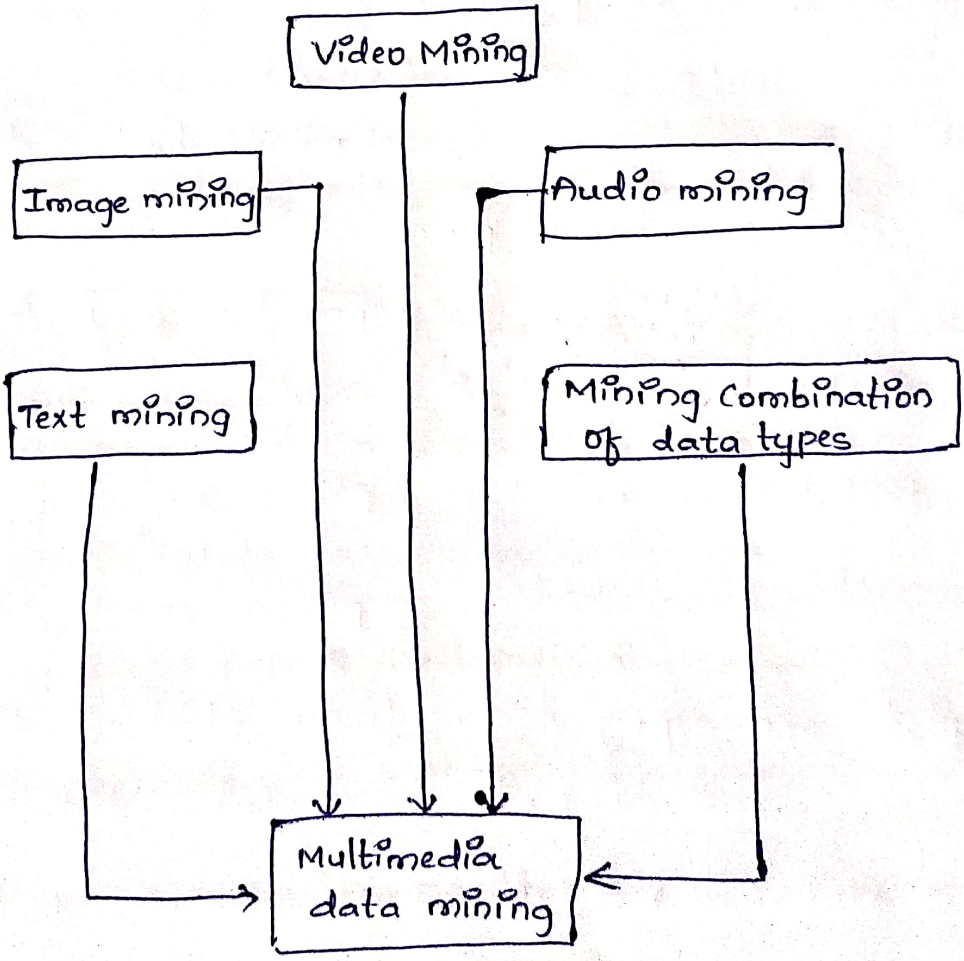
Unit- 5

Multimedia Data Mining :-

- It is the discovery of intresting patterns from multimedia databases that store and manage large collection of multimedia objects.
- Applications - Mobiles, Digital camera, internet, etc.
- Ex: Audio data.
  - Image data
  - Video data
  - graphics data
  - Animation data
  - Sequence data.

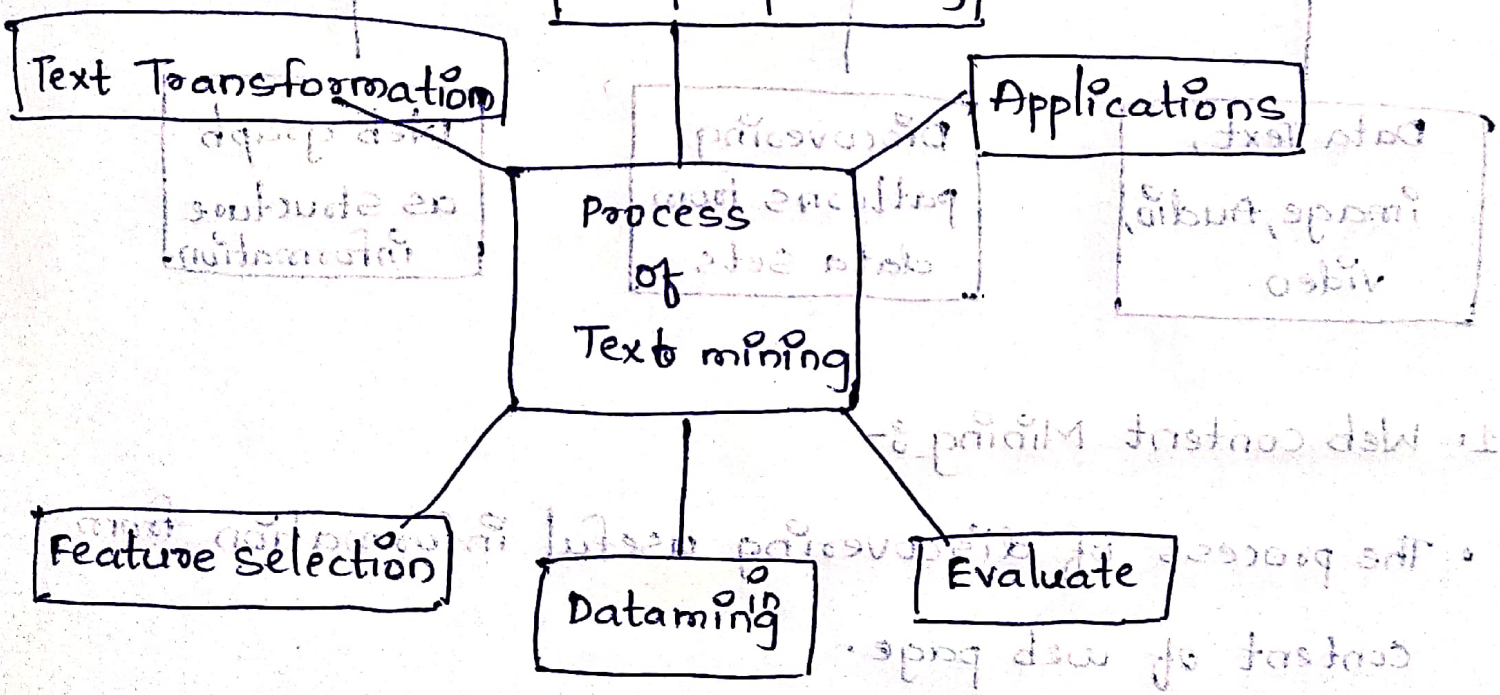


Text Mining :-

- It is the process of extracting required data and consists of large collections of documents of from various data.
- Examples :

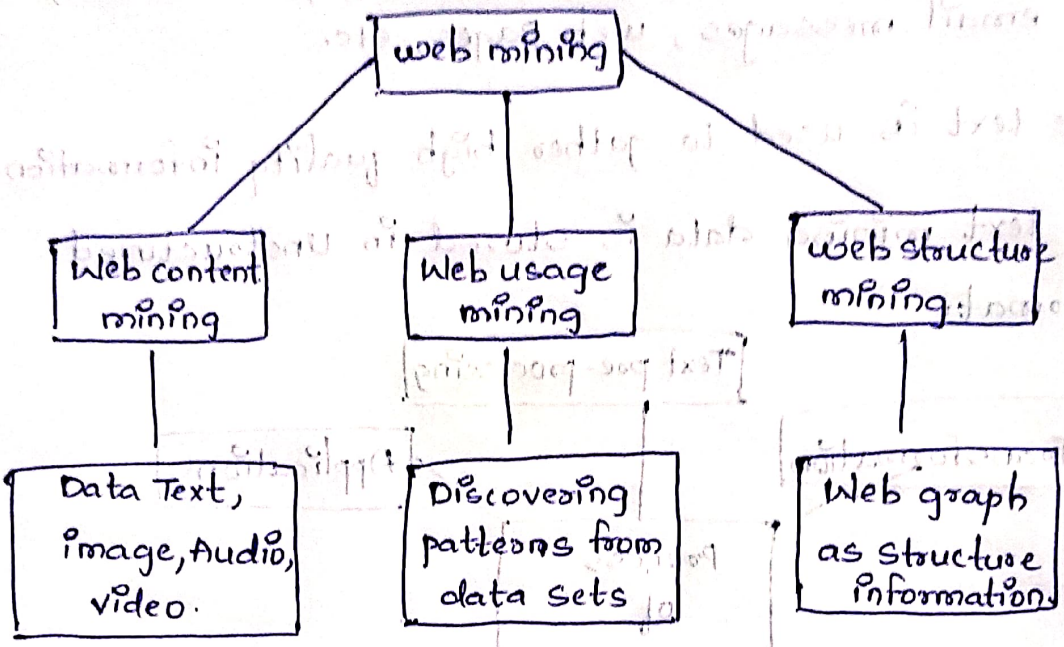
  News paper articles, research papers, books, email messages, web pages, etc.

- The text is used to gather high quality information.
- In text mining data is stored in unstructured format.



Web Mining :-

- Web mining is the application of data mining system techniques.
- Extracting the patterns and information from world wide web is known as Web mining.



1. Web content Mining :-
   - The process of discovering useful information from content of web page.
   - Useful information contains. Audio, video, text, image.
   - Web content mining also known as web text mining.
2. Web usage mining :-
   - It predicts about which pages are likely to be visited in future by user behaviour.
   - Such pages can be pre-fetched to reduce access time.

- Automatic discover of patterns from one(or) more web servers.

3. Web Structure Mining :-

- The structure of a web graph as follows : Structure information.
- Web pages acts as nodes.
- Hyperlinks acts as connection between two related pages (nodes).

Applications :-

- Useful for E-learning and E-business.
- Security and crime investigation.

Spatial data Mining :-

- It is the process of discovering potentially useful patterns from spatial data sets.
- Spatial database stores large amount of space data such as maps, remote sensing, Medical images.
- Examples : NASA, ISRO, RADAR Data, etc.
- It consists of spatial classification, spatial clustering methods, etc.
- It measures - numeric measures
  - spatial measures.
- It has 3 dimensions - spatial dimension
  - spatial to non-spatial dimension
  - spatial to spatial dimension.