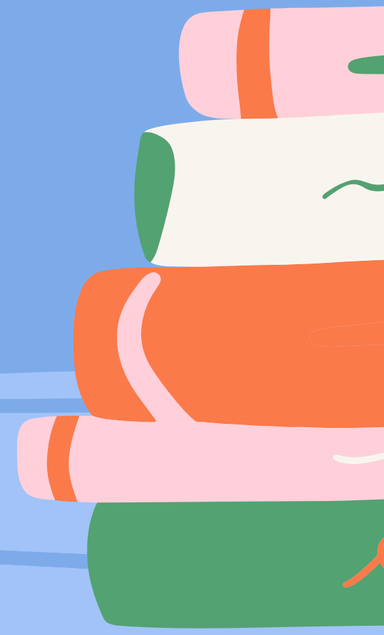
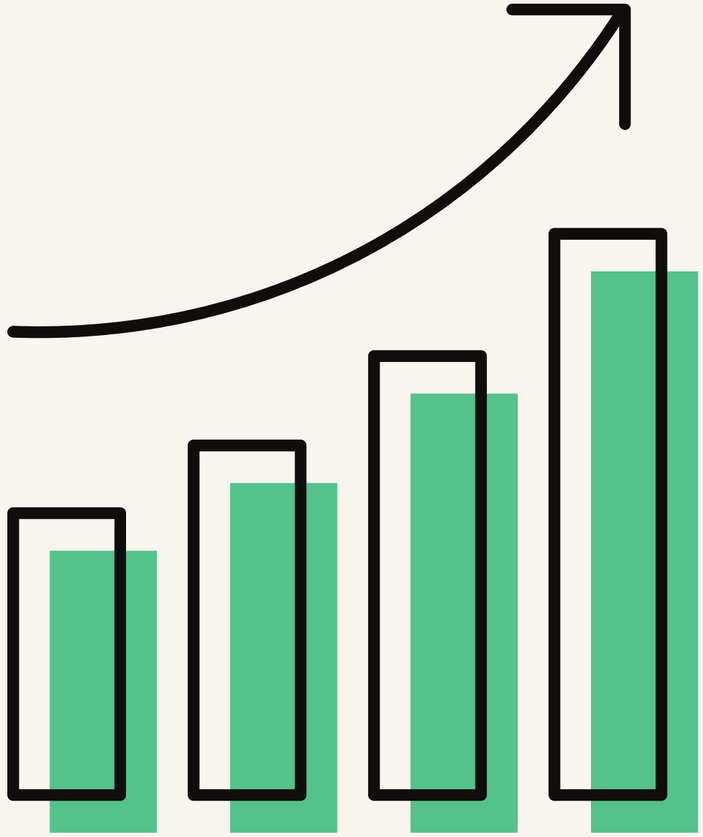
DM Active Learning

Types of Graph



WHAT IS GRAPH

- Graphs are one of the prime objects of study in . In general, a graph is represented as a set of vertices (nodes or points) connected by edges (arcs or line).
- Graphs are therefore mathematical structures used to model pairwise relations between objects.
- They are found on road maps, constellations, when constructing schemes and drawings.



Types of graph

SIMPLE GRAPH

MULTIGRAPH

PSEUDOGRAPH

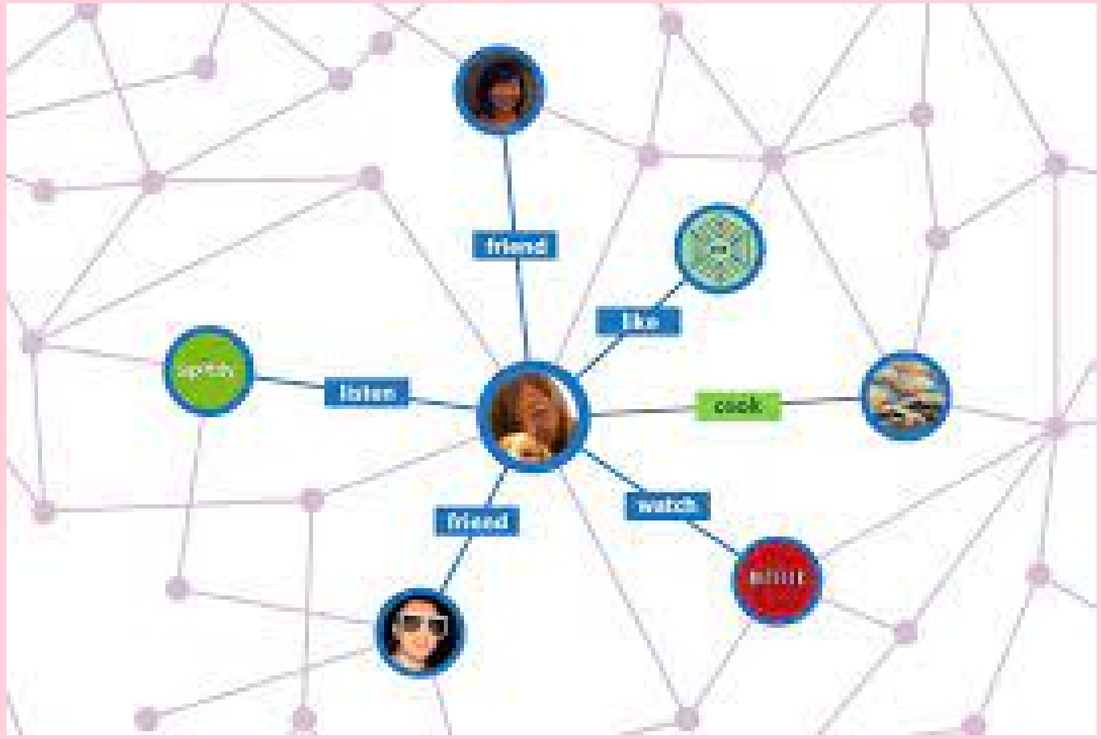
DIRECTED GRAPH

DIRECTED MULTIGRAPH

GRAPH APPLICATIONS

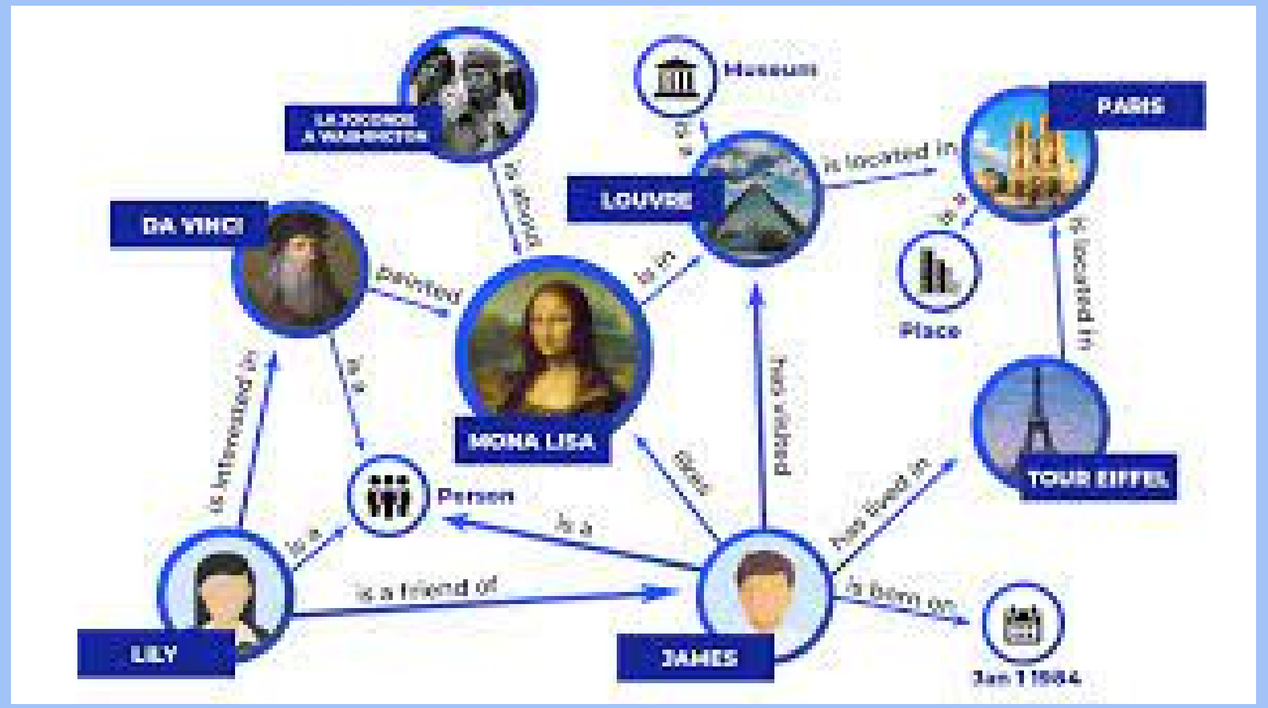
SOCIAL GRAPH:

The social graph is a graph that represents social relations between entities. In short, it is a model or representation of a social network. Facebook's Graph API is perhaps the best example of application of graphs to real life problems. The Graph API is a revolution in large-scale data provision.



Knowledge graph:

Knowledge graphs are often used to store interlinked descriptions of entities – objects, events, situations. They are also prominently associated with and used by search engines such as Google, Bing, and Yahoo knowledge engines and question answering services such as WolframAlpha, Apple's Siri, and Amazon Alexa.



Road Networks:

Now a days, Google map is a very useful tool for travelling anywhere in the world. Using Google maps we can find all the routes from any place to any other place and also can find the shortest route.

Field of Biology:

- Within the fields of Biology and Medicine, potential applications of network analysis by using graph theory include identifying drug targets, determining the role of proteins or genes of unknown function.
- There are several biological domains where graph techniques are applied for knowledge extraction from data.

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