

Study Notes

Here are your SHORT, VISUAL study notes for Data Mining:

■ Key Concepts

- **Data Mining (DM)**: Extracting "knowledge" from large datasets using stat & computational methods.
- **Knowledge Extraction**: Finding valuable, hidden insights within raw data. ■
- **Patterns & Relationships**: Discovering regularities or connections in data. ■
- **Informed Decisions**: Using data insights to make better choices or predictions. ■

■ Important Points

- DM uses various **statistical** & **computational** techniques. ■■
- Works with **structured**, **semi-structured**, & **unstructured** data. ■■■■
- Data sources include **databases** & **data warehouses**. ■
- The primary goal is to find **hidden patterns** & **relationships** to enable predictions. ■■■■■■
- Key DM techniques mentioned: **Classification**, **Regression**, **Clustering**.

■ Quick Facts

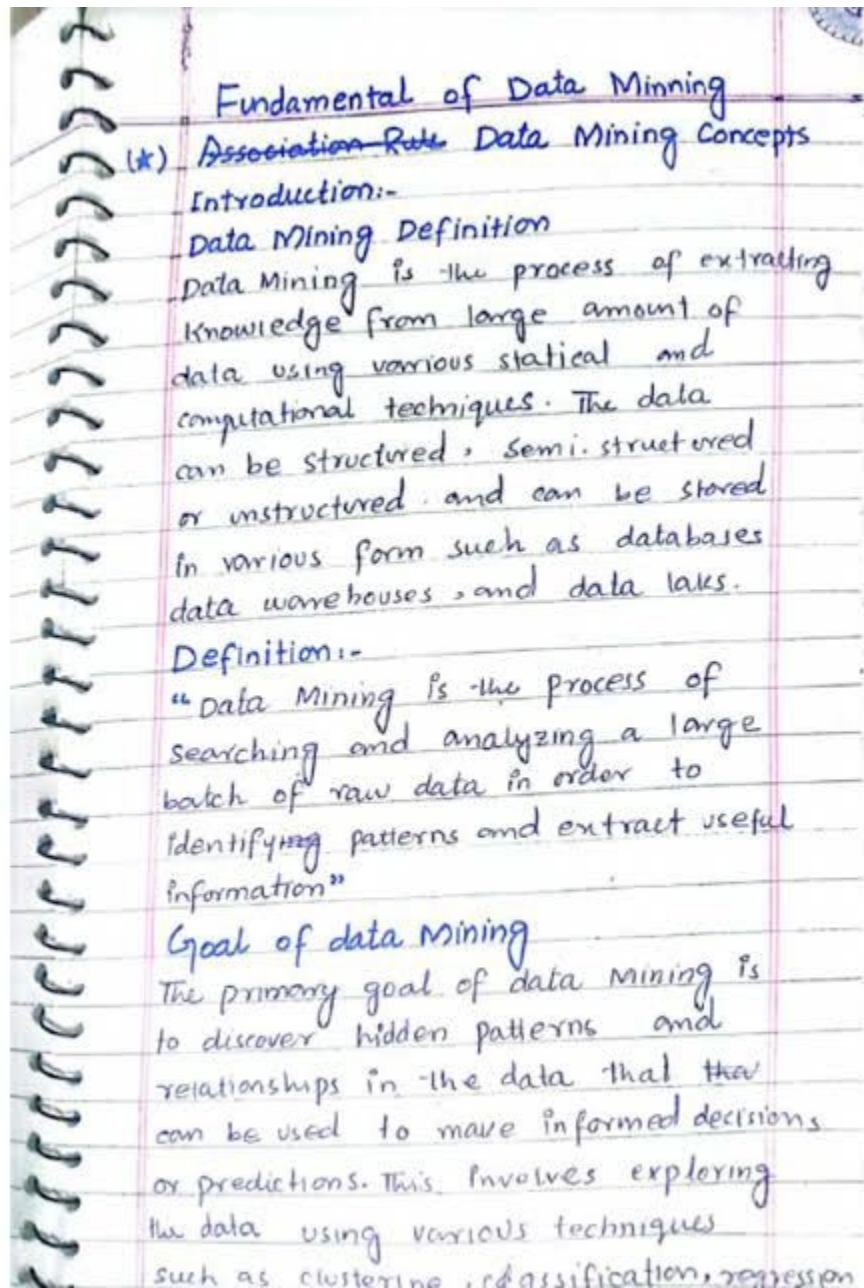
- DM identifies **useful information** from raw data. ■
- Helps forecast future outcomes or trends. ➡■■
- Operates on "large amounts of data." ■

■ Memory Tips

- **DM is KEDS**: **K**nowledge **E**xtraction, **D**ecision-making, **S**tatistical & Computational.
- Think of DM as a **Data Detective**: searches for hidden clues (patterns) to solve a mystery (mak...

■ Reference Images

Image 1



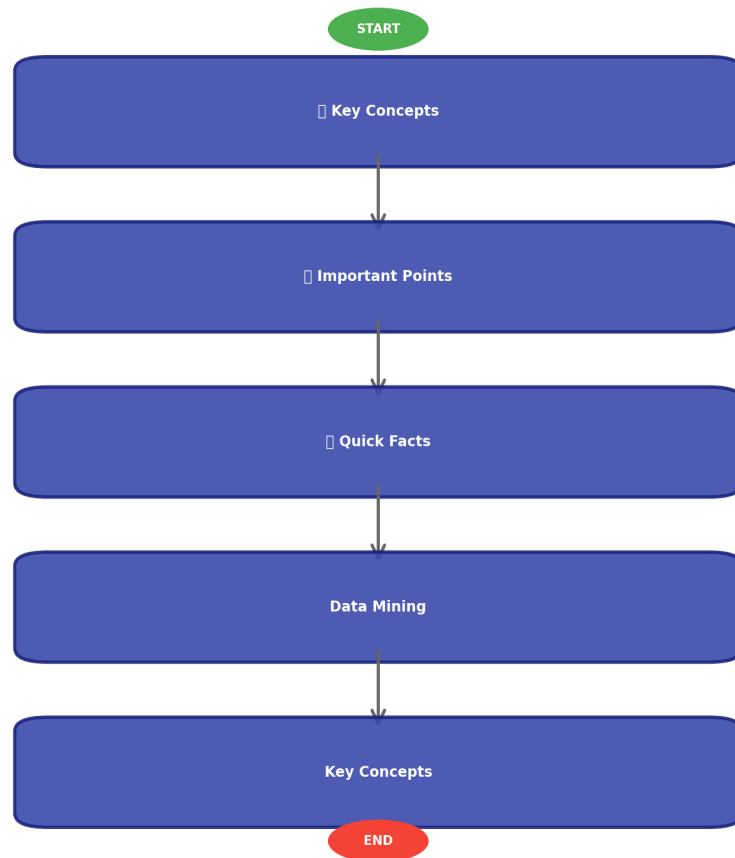
Scanned with CamScanner

■ Visual Diagrams

Concept Mind Map



Process Flowchart



Concept Hierarchy

