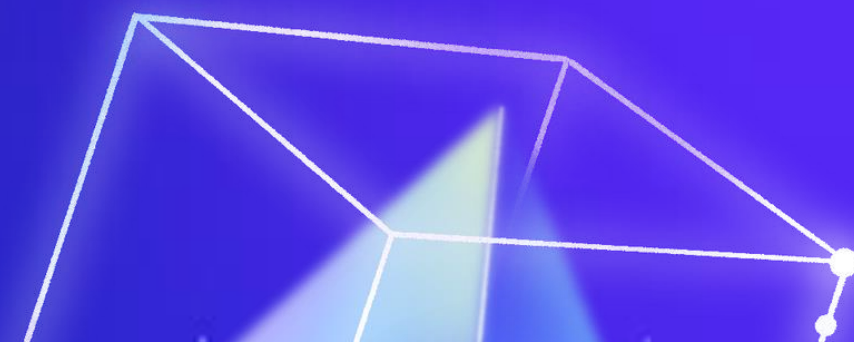


ENSIAS AI CLUB

INTRODUCTION TO DATA

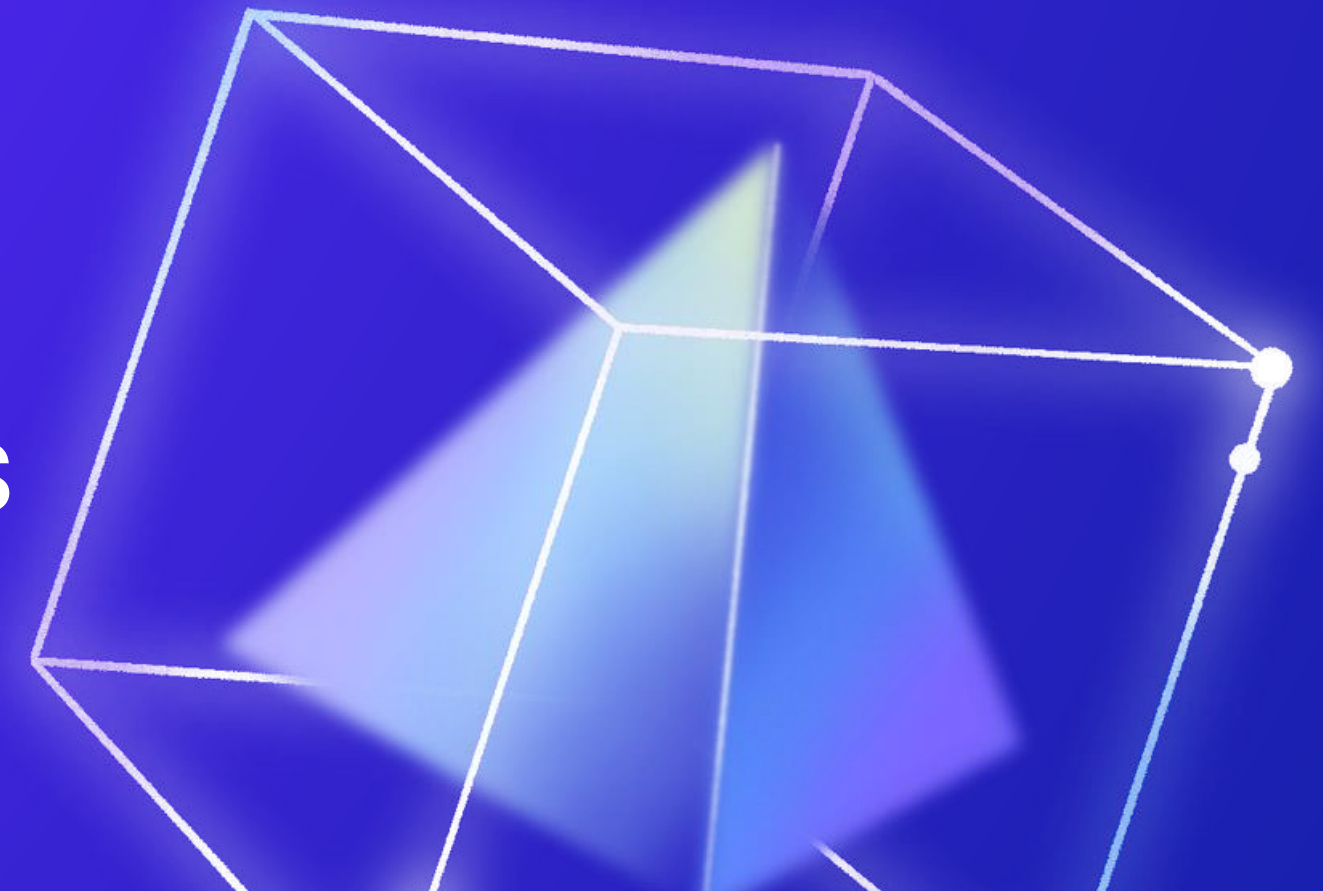
By : BELZEDI Ghizlane
Ismali El kAMEL



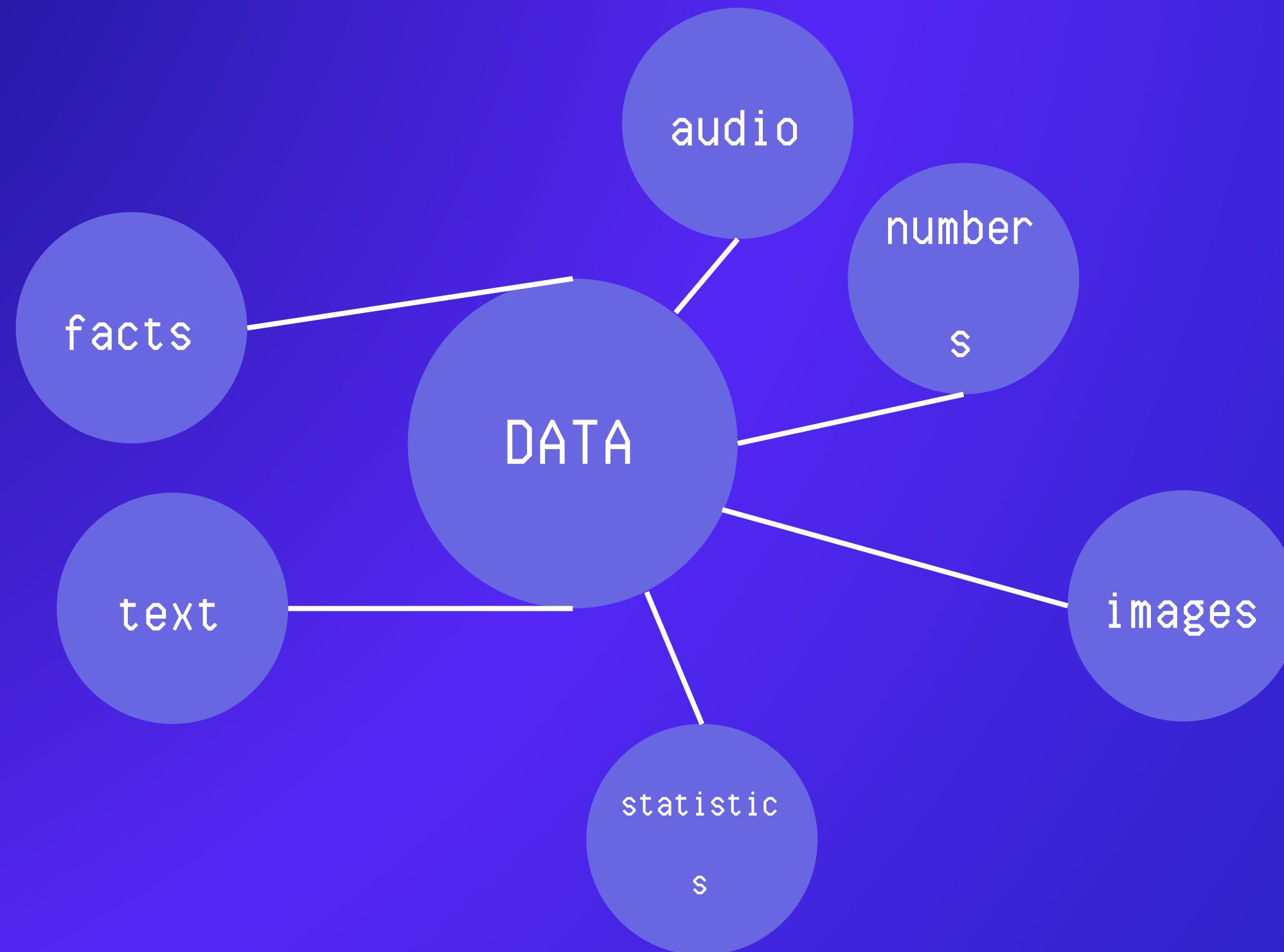


PLAN

- What's Data ?
- Data sources
- Types of Data
- Data life cycle stages
- Data science / Data engineering / Data analytics
- Data Ethics



1- What's Data ?



2-Data sources

Sensor Data

Social Media

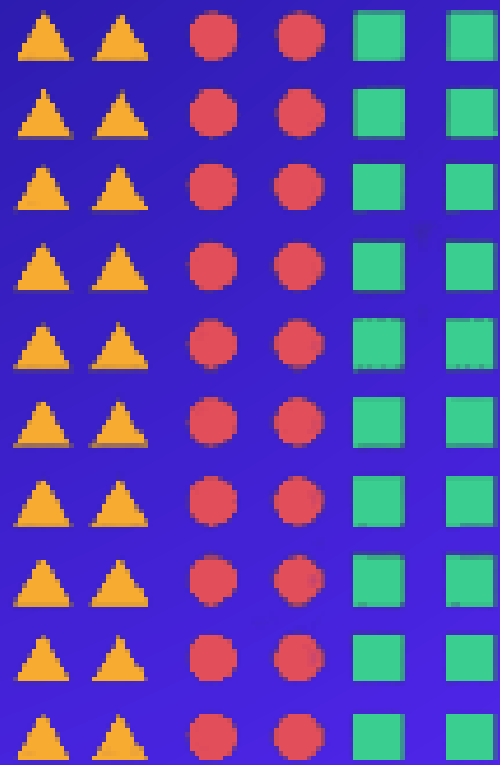
Data Collection

Surveys and Questionnaires

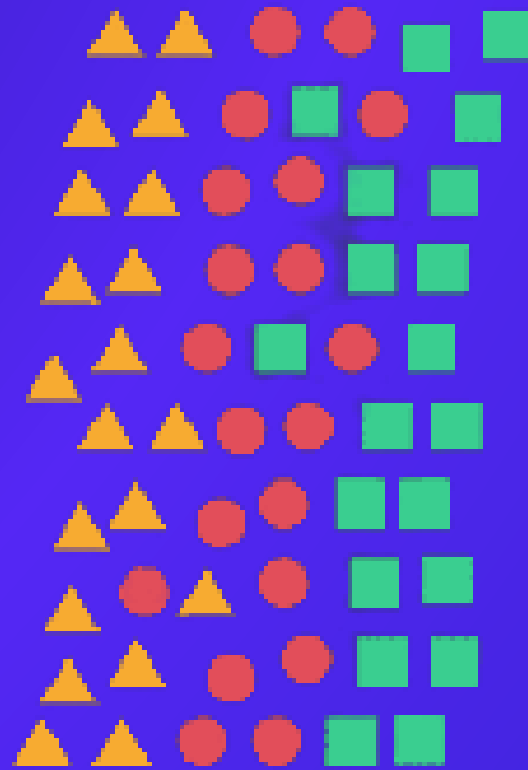
Websites

3-Types of Data

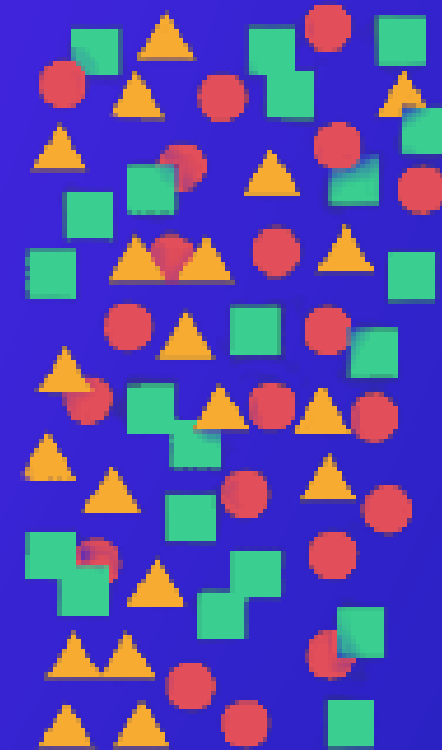
Structured Data



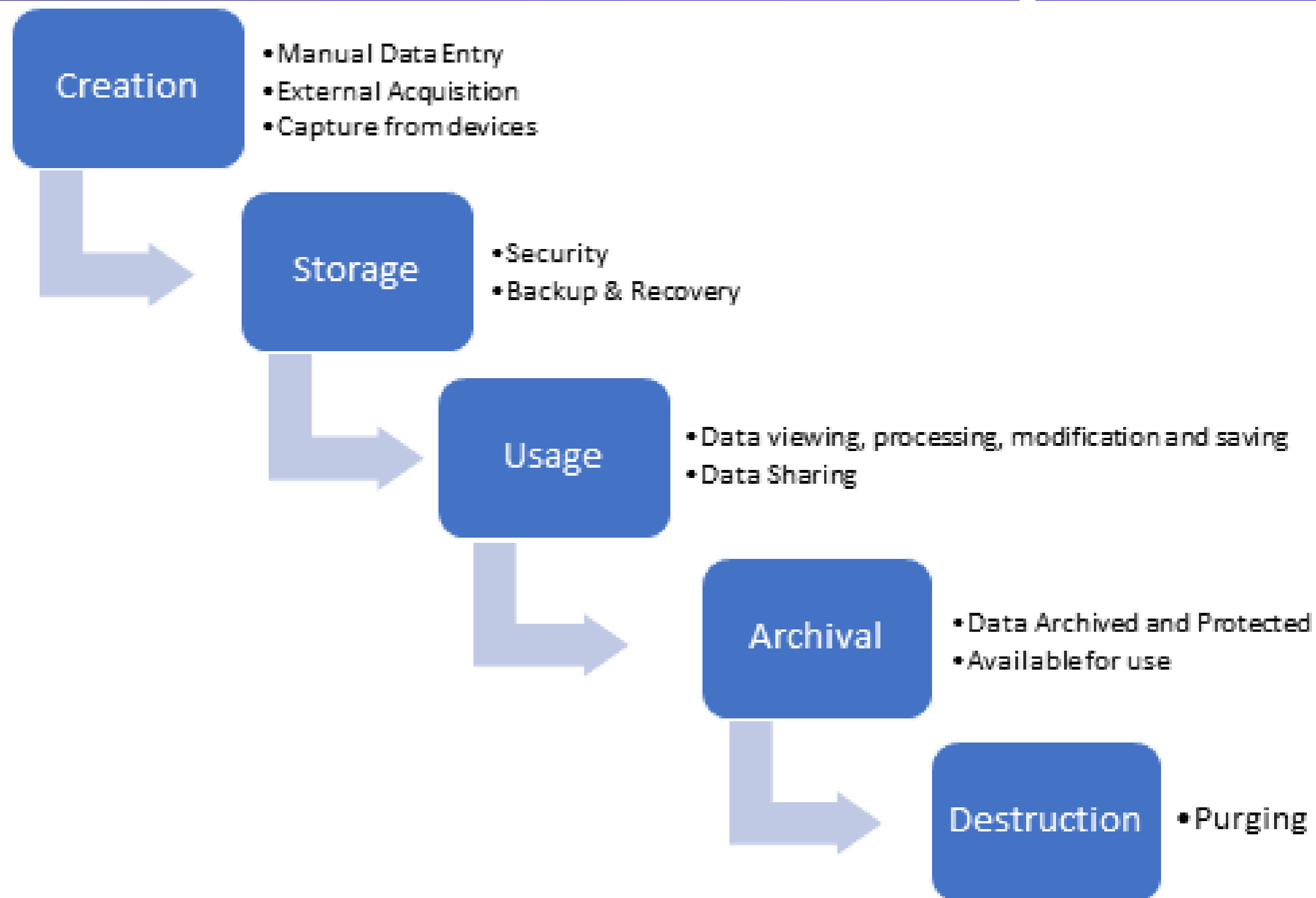
Semi-Structured Data



Unstructured Data



4-Data life cycle



5-Data science / Data engineering / Data analytics

- Statistical Analysis and

Mathematics

- Programming Skills
- Data Manipulation and Cleaning
- Machine Learning and Modeling
- Data Visualization and Communication

- Data Pipeline and ETL

(Extract, Transform, Load)

- Database Management
- Big Data Technologies
 - Data Warehousing
- Coding and Scripting

- Data Analysis Tools

- Data Visualization
- Domain Knowledge
 - Critical Thinking
 - Communication

Skills

6-Data ethics

TRANSPARENCY

PRIVACY

INTENTION

Thank you for
your attention!