Modeling & Data Analysis

The Data Processing Pipeline

Gather
Transform & Clean
Discover

Acquisition & Storage
Cleaning Annotation Integration Aggregation
Exploration & Querying
Modeling & Data Analysis

Data Preparation
Data Preparation: Automate tasks that are traditionally tedious

- **Data Quality: Trust your data**
  - Work with data inherently noisy, containing duplication, and coming from untrusted sources
  - Fairness & Explainability

- **Knowledge Base construction & Graph Data**
  - Techniques and tools for the automatic creation and management of knowledge graphs.
  - Coping with evolution
  - Network Science

- **Data Catalogs: Discover and Use the right data**
  - Identify the data that is best suited for a task at hand
  - Searching through examples (not queries)
  - Data Matching & Integration: Support Federated Learning
  - Enabling combinations of streaming and static data for efficient data analysis

- **Data Maintenance**
  - Focus on the data that matters
  - Ensure continuity in the long run

- **Data Preparation through ML (especially Deep Learning)**
  - Entity Resolution, Data Exploration, Data Imputation, Data Citation

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