

Data Analysis Sequence

Question to Answer

Data Acquisition	What ? Where ? How ? Format ?
Data Cleaning	Missing Values? Outliers? String Format? Normalization
Descriptive Analysis	Reporting Aggregate Measures - Scatter plots, Histograms, Statistical Summaries
Exploratory Analysis	Relationships between variables - Inferential, Predictive, Causal, Mechanistic data analysis
Data Modeling	Training and Testing
Quality Assessment of Models	Overfitting ? Underfitting ?
Interpretation of Results	Domain Expertise

Data Acquisition Pipeline

SOURCES	FORMAT	REPRESENTATION
Internet	Plain Text (unstr)	List, Tuple, Set
File / Pickled File	CSV	Array, Matrix
Database	HTML/XML	Frame, Series
	JSON	Dictionary
	Tabular	

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