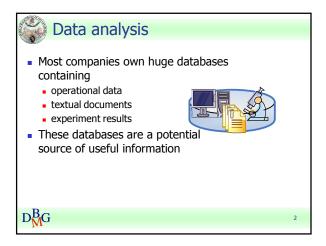
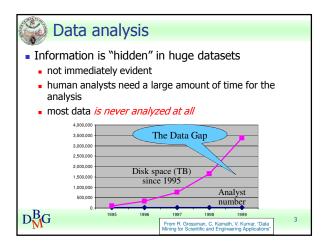
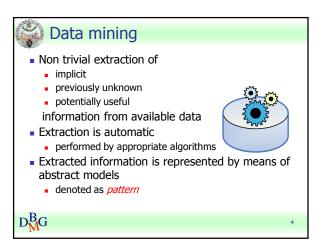


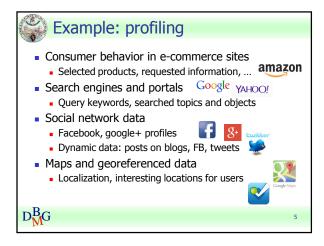
Data mining fundamentals

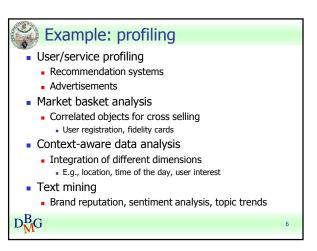










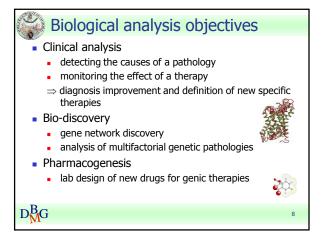


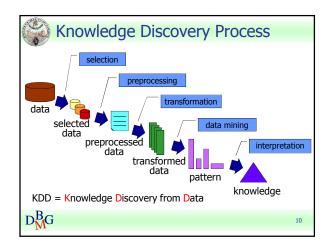


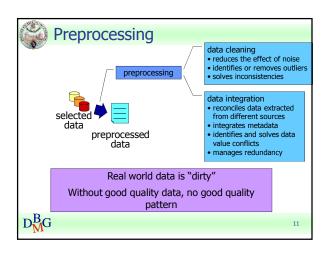
 $D_{M}^{B}G$

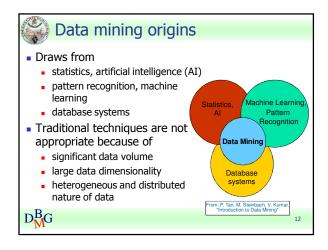
Example: biological data Microarray expression level of genes in a cellular tissue various types (mRNA, DNA) Patient clinical records personal and demographic data exam results Textual data in public collections heterogeneous formats, different objectives scientific literature (PUBMed) ontologies (Gene Ontology) Publications Publication

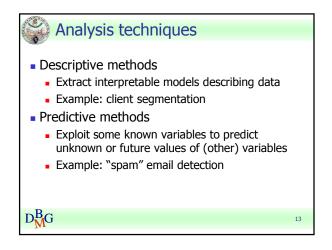
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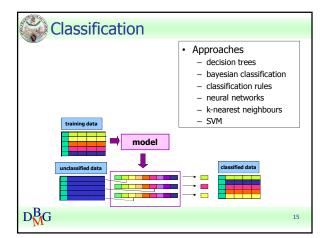


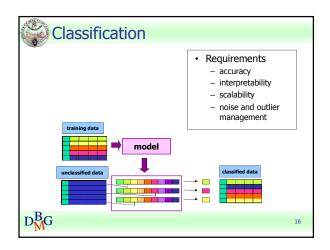


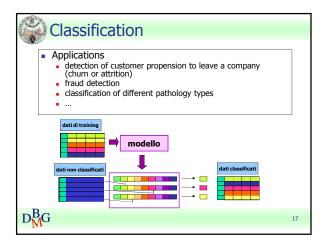
Classification • Objectives

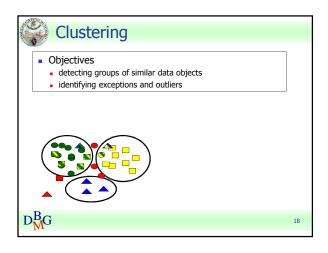
Classification Objectives prediction of a class label definition of an interpretable model of a given phenomenon training data model unclassified data classified data

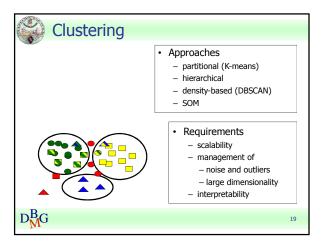
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Clustering Applications customer segmentation clustering of documents containing similar information grouping genes with similar expression pattern ...

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