

Summary of Data Mining and Analytics I

Overview of Data Mining

Types of Data Mining		
Basis for Comparison	Descriptive Mining	Predictive Mining
Basic	It identifies what happened in the past by analyzing stored data.	It describes what can happen in the future based on historic data.
Requirements	Data aggregation and data mining	Statistics and forecasting methods
Preciseness	Provides accurate data	Produce results that does not ensure accuracy.
Approach	Reactive	Proactive
Practical Analysis Methods	Standard reporting, query/drill down and ad-hoc reporting.	Predictive modelling, forecasting, simulation and alerts.
Examples	<i>Adverse events of a drug were explored by clustering the therapeutic classes; A data analyst receives detailed customer purchasing data and finds associations of any type among customers.</i>	<i>An automobile company scored customers for likelihood to return to buy a new model within the next 6 months; A credit card company offered a valued customer product for their card holder based on past card usage to determine the risk pattern; Road traffic was forecasted hourly</i>

Data mining aims





