

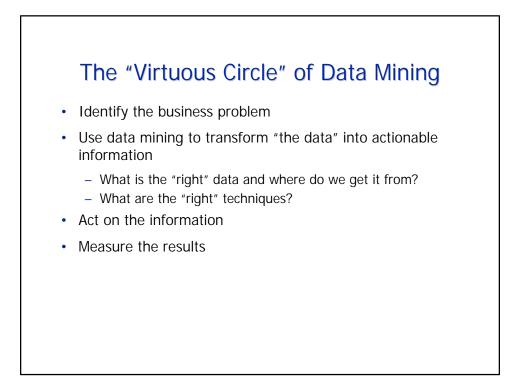


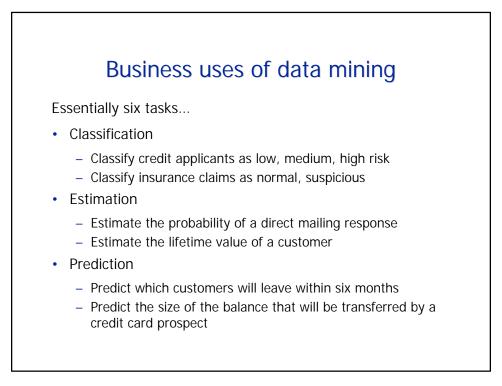
# Case study: Bank is losing customers...

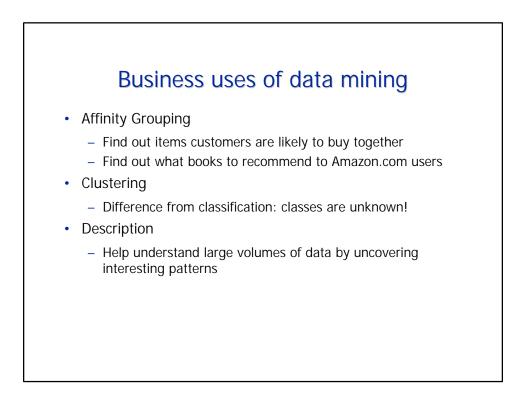
- Attrition rate greater than acquisition rate
- · More profitable customers seem to be the ones to go

# Case study: Bank of America

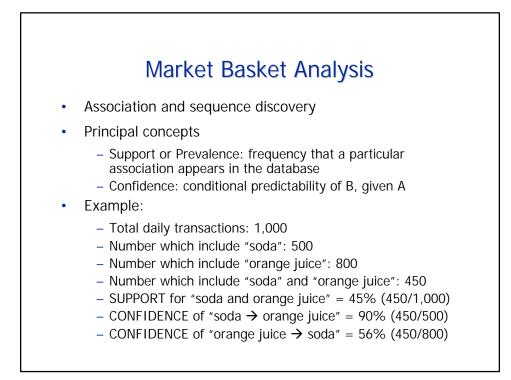
- · Bank wants to expand its portfolio of home equity loans
- Direct mail campaigns have been disappointing

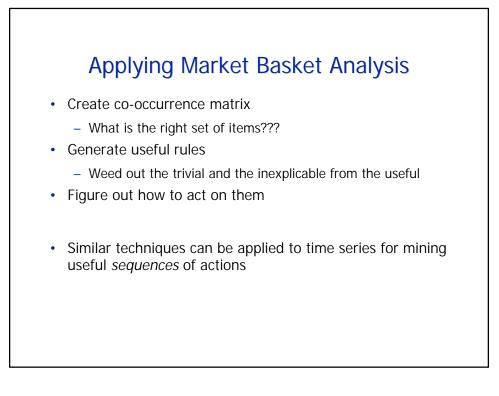


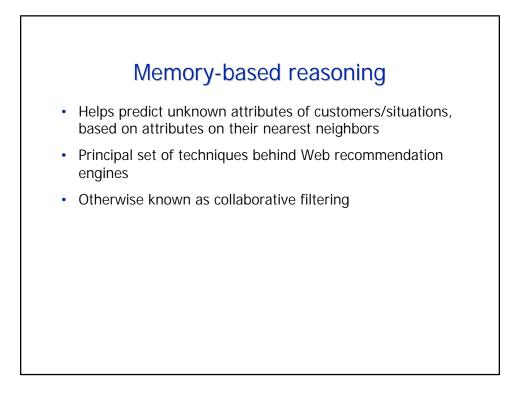


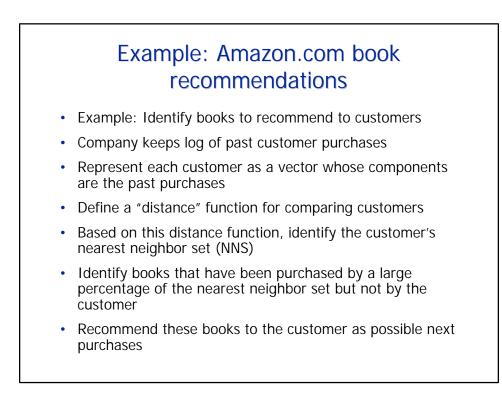


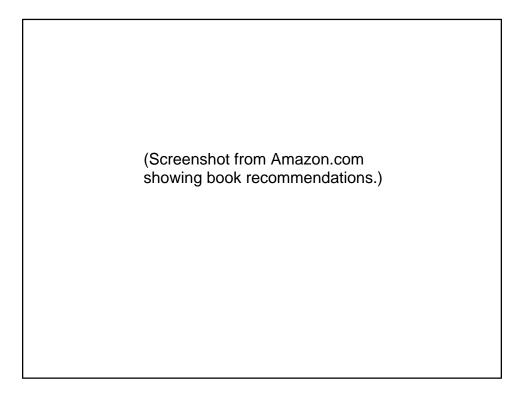


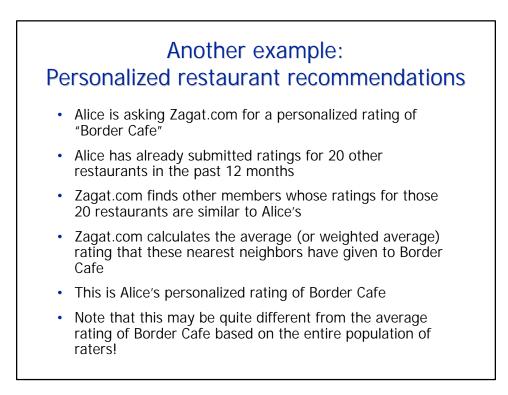


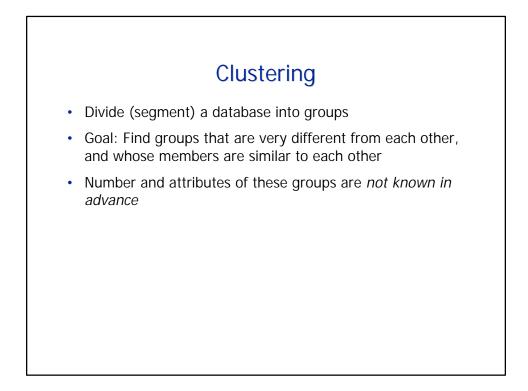


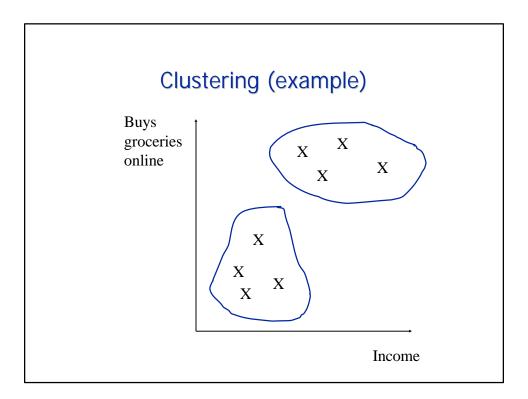


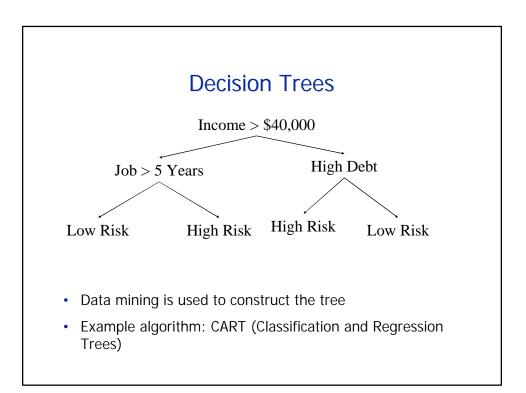


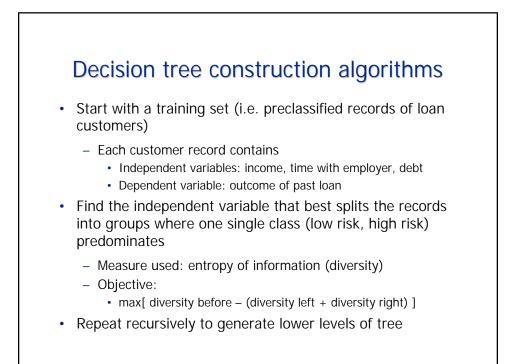


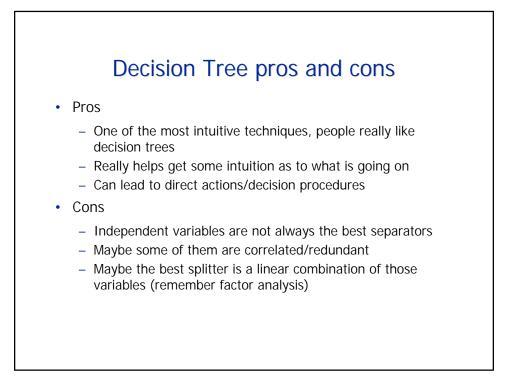


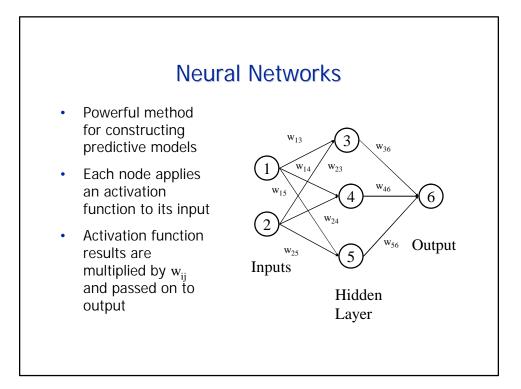


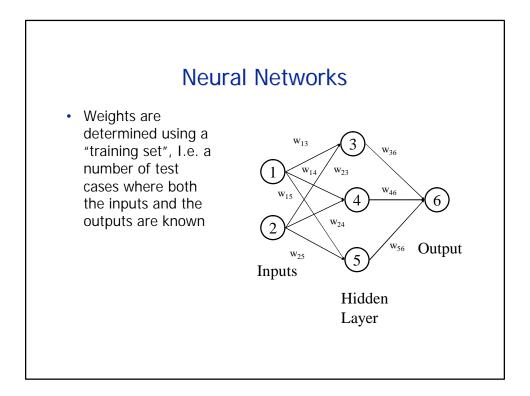


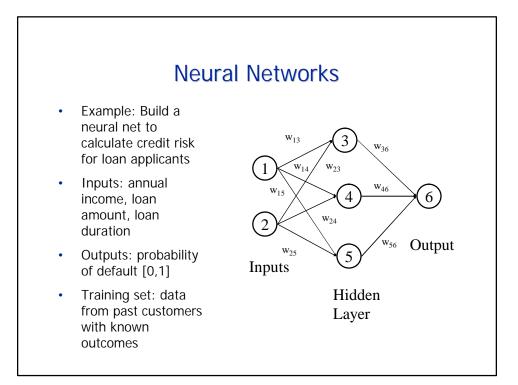


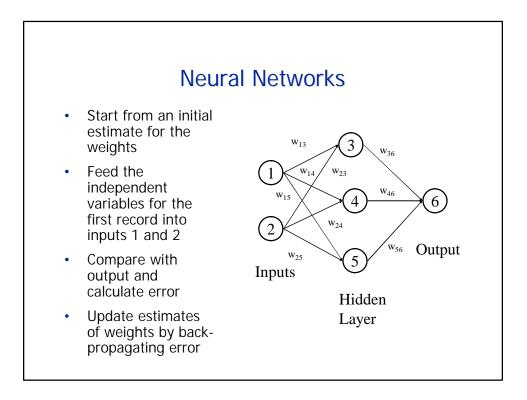


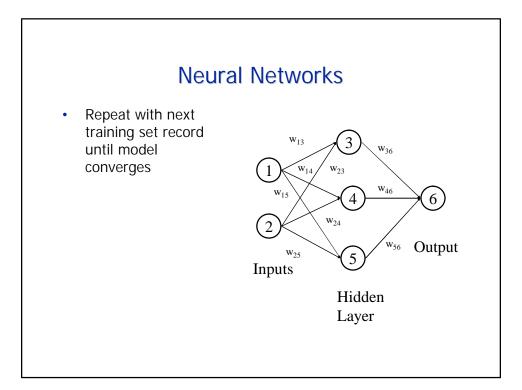


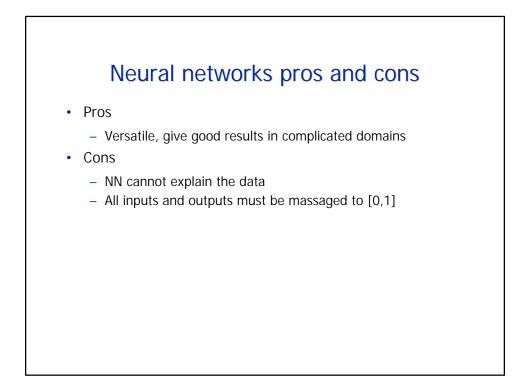














- Define business problem
- Build data mining database
- Explore data
- Prepare data for modeling
- Build model
- Evaluate model
- Deploy model and results

	lassifi-E ation	Estimatio	nPredictio	nAffinity Groupin		ngDescriptio
Standard Statistics	4	*	4	4	4	*
Market Basket Analysis			*	*	~	√
Memory- Based Reasoning	*		~	4	*	
Genetic Algorithms	√		4			
Cluster Detection					√	
Link Analysis	√		1	~		
Decision Trees	√		4		1	√
Neural Networks	√	$\checkmark$	~		~	

Evaluating	the various techniques
Ease of	Ease of Ease of Generality Utility Availability

	Jnderstand Aodel	ling Trainin Model	g Applying Model	3		
Standard Statistics	В	В	В	В	В	A+
Market Basket Analysis	А	A	A+	D	В	В
Memory- Based Reasoning	A	В	В	A	A-	С
Genetic Algorithms	B–	C-	A-	B+	С	С
Cluster Detection	B+	B+	A-	A-	B–	В
Link Analysis	A-	С	В	D	В	C+
Decision Trees	A+	B+	A+	А	А	B+
Neural Networks	C-	B–	A-	А	А	А

