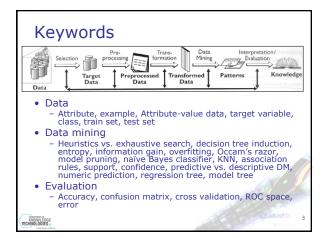
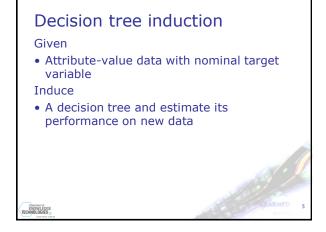
## Data Mining and Knowledge Discovery Petra Kralj Novak Petra.Kralj.Novak@ijs.si 2010/11/25

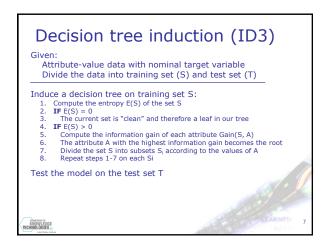


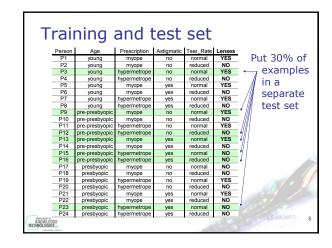




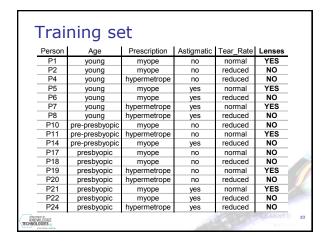


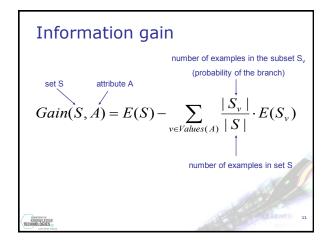
Attri	ibu	te-va	alue (	data	-	nominal) target rariable	
	Person	Age	Prescription	Astigmatic	Tear Rate	Lenses	
examples -	P1	young	myope	no	normal	YES	> classes
Chambioo (	P2	young	myope	no	reduced	NO	classes
1/2	P3	young	hypermetrope	no	normal	YES	_
\ \ \ \	P4	young	hypermetrope	no	reduced	NO	_
	P5	young	myope	yes	normal	YES	values of
	P6	young	myope	yes	reduced	NO	
	P7	young	hypermetrope	yes	normal	YES	the
	P8	young	hypermetrope	yes	reduced	NO	(nominal)
١.	P9	pre-presbyopic	myope	no	normal	YES	target
	P10	pre-presbyopic	myope	no	reduced	NO	
\ \	P11	pre-presbyopic	hypermetrope	no	normal	YES	variable
	P12	pre-presbyopic	hypermetrope	no	reduced	NO	
	P13	pre-presbyopic	myope	yes	normal	YES	4
	P14	pre-presbyopic	myope	yes	reduced	NO	
	P15	pre-presbyopic	hypermetrope	yes	normal	NO	
	P16	pre-presbyopic	hypermetrope	yes	reduced	NO	
	P17	presbyopic	myope	no	normal	NO	
	P18	presbyopic	myope	no	reduced	NO	
	P19	presbyopic	hypermetrope	no	normal	YES	1/2 1/2
	P20	presbyopic	hypermetrope	no	reduced	NO	+1/
	P21	presbyopic	myope	yes	normal	YES	
	P22	presbyopic	myope	yes	reduced	NO	The same of the sa
KNOWLEDGE	P23	presbyopic	hypermetrope	yes	normal	NO	EARNED 6
TECHNOLOGIES	P24	presbyopic	hypermetrope	yes	reduced	NO	MEDER

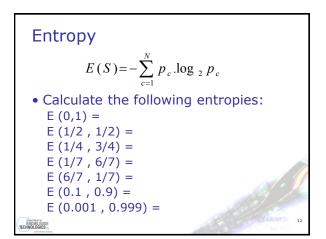




Tes	t set					
Person	Age	Prescription	Astigmatic	Tear_Rate	Lenses	
P3	young	hypermetrope	no	normal	YES	
P9	pre-presbyopic	myope	no	normal	YES	
P12	pre-presbyopic		no yes yes	reduced normal normal	NO YES	
P13	pre-presbyopic					
P15	pre-presbyopic				NO	
P16	pre-presbyopic	hypermetrope	yes	reduced	NO	
P23	presbyopic	hypermetrope	yes	normal	NO	
	these dat them in				look	
MITMOST OF						







# Entropy $E(S) = -\sum_{c=1}^{N} p_c \cdot \log_2 p_c$ • Calculate the following entropies: E(0,1) = 0 E(1/2, 1/2) = 1 E(1/4, 3/4) = 0.81 E(1/7, 6/7) = 0.59 E(6/7, 1/7) = 0.59 E(0.1, 0.9) = 0.47

E(0.001, 0.999) = 0.01

