

























































	Ru	le E	valu	ati	on		
(i) Create Rule Base	Antecedent 1 Temperature						
Antecedent 2	Cold	Cool	Normal	Warm	Hot		
2 Wet	short	short	short	short	short	1	
-SO Moist	short	med.	med.	med.	med.	1	
Dry	long	long	long	long	long	]	
Sample rules extract	from th	e table	in abov	e table		_	
<ul> <li>If temperature is h</li> </ul>	otAND	soil is <i>di</i>	ry, then	water	duratior	n is <i>long</i> .	
<ul> <li>If temperature is c</li> </ul>	old AND	soil is d	lry, ther	n water	duratio	n is <i>long</i> .	1

















## Fuzzy Logic in Medical Decision Making

• The sugar level in the blood, for a normal human being, should be between 80-120mg per 100 ml. If it exceeds 120mg the person is said to be diabetic. But there are certain situations when the person may not be diabetic even if the sugar level in the blood exceeds 120mg. As examples, after a person exercises hard, the sugar level increases over 120mg, and for a pregnant woman, in her normal course of pregnancy, the sugar level in her blood may be more than 120mg. But in both these cases we cannot say that the patients are diabetic. Hence uncertainty arises, and fuzzy decision making can be applied here.









- Similarity Measures between Line Segments
- Basic Matching Algorithm
- Dealing with Noisy Patterns
- Dealing with Rotated Patterns
- Applications











































## **Combined Classifiers**

- Voting Schemes
- Maximum Posteriori Probability
- Multilayer Perceptron Approach
- Fuzzy Measures and Fuzzy Integrals
- Applications



















































