



→ Seeta is not very fair

✓  $\cdot \{1, 0\}$

→ mohan is little bit intelligent

$\{0.8, \{c.f = 0.3\}\}$

→ rahi is extremely hot

$c.f = 0.9$

0 Fuzzy set

(2) sp

Fuzzy Logic

$\{0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9\}$

0 → 1  
0.1 0.2 0.3 0.4 0.5  
0.6 0.7 0.8  
0.9 → 1

Fuzzy set



$\mu_{\bar{A}}$

Value changing continuously  
and can't not be defined  
as true and false

$\mu_{\bar{A}} = \{1.0\}$

$\mu_A = \{0.1, 0.2, 0.3, \dots, 0.9, 1\}$

$x = 314$   
 $y = 414$   
 $z = 514$

$\overline{KA} = \{(x, 3), (y, 4), (z, 5)\}$

Fuzzy Set theory  $\rightarrow$  Fuzzy Set  
 Operation on fuzzy set  
 $\{U, \cap, \min, \max, \dots\}$

Membership function or Member function

$$\overline{A} = \overline{KA}$$

$$= \{0.1, 0.4, 0.3, 0.2, 0.1\}$$

from  $\downarrow$   
 $0.1 \rightarrow 0.5$

$$\rightarrow 0.8, 0.9 \rightarrow 1$$

True