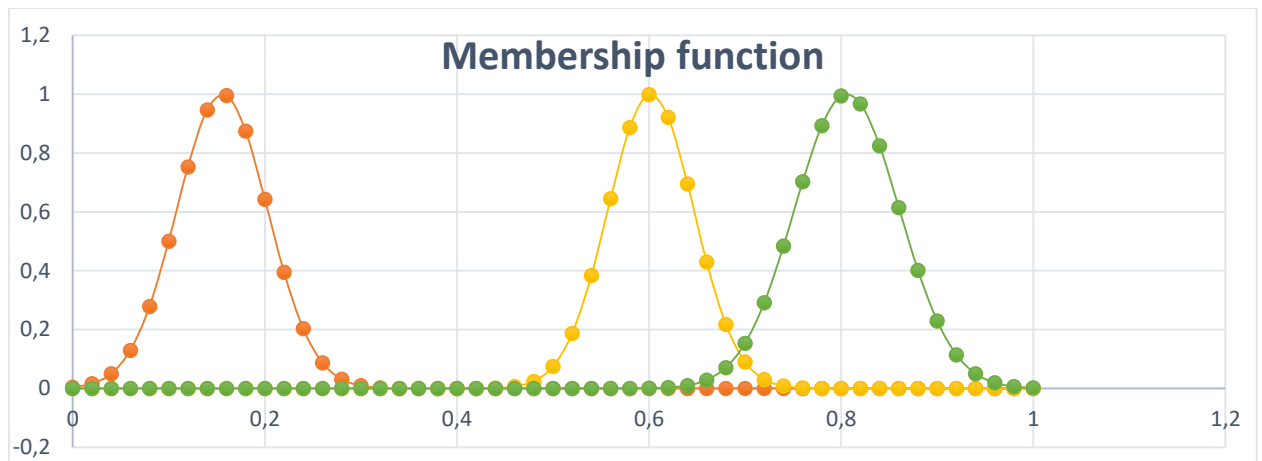




Rule 1

if x1=Medium x2=Large x3=Small x4=Small then A

Rule 2

if x1=Large x2=Medium x3=Large x4=Large then B

Rule 3

if x1=Large x2=medium x3=Large x4=Large then C

	Family A	Family B	Family C	Good or not good
	A	B	C	Good
	A	B	C	Good
	A	B	C	Good
	A	B	C	Good
	A	B	C	Good
	A	B	B	Not good
	A	B	C	Good
Success rate	100%	100%	87%	87%

0.65

0.80

0.20

0.08

$M1 = 0.5607935190186424 * 0.9940179640539353 * 0.643379752487798 * 0.27842570409799405 = 0.1$

$M2 = 0.017318153368134238 * 0.000054850322038625596 = 1 * 10^{-6}$

$M3 = 0.017318153368134238 * 0.000054850322038625596 = 1 * 10^{-6}$

$$y = 0.1 + 5 * 10^{-6} / 0.1 + 2 * 10^{-6} = 1,00003$$

$$y = \begin{cases} 1 & \dots \text{ if } \hat{y} < 1.5 \\ 2 & \dots \text{ if } 1.5 \leq \hat{y} < 2.5 \\ 3 & \dots \text{ if } 2.5 \leq \hat{y} \end{cases}$$

So far as our $y < 1.5$ therefore we have Setosa