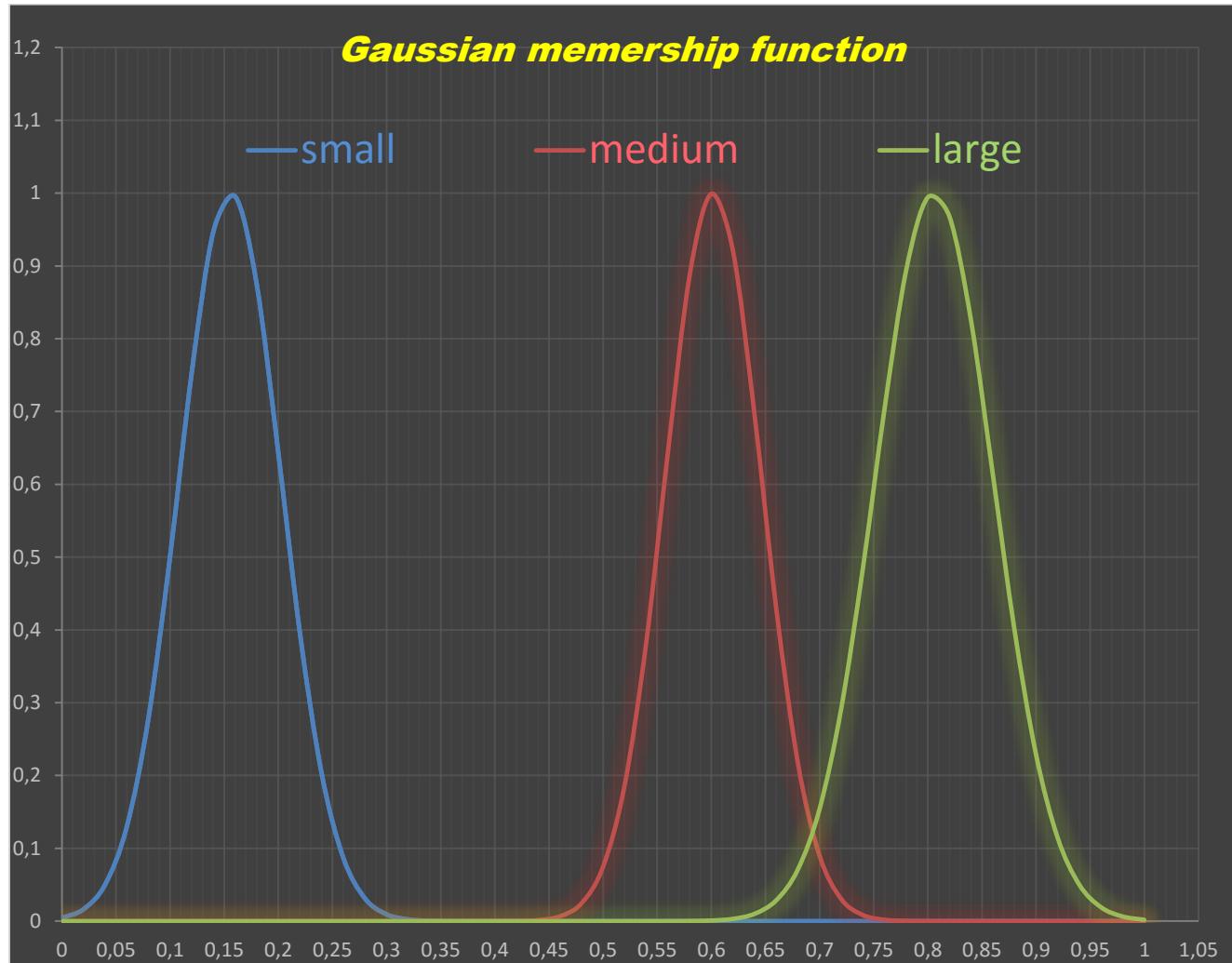


In this work, it was necessary to divide $17 \times 4 \times 3 = 204$ data into 3 groups of small medium large and calculate avg and std for each of 3 groups.

Draw 3 Gaussian membership function of small, medium, and large in x-y coordinate.

Create 3 rules for each family A, B, C by your feeling.

Using 2nd 8 data to evaluate your 3 rules good or not by check OK NO False alarm.



3 Rules

IF	X_1 = medium	AND	X_2 = large	AND	X_3 = small	AND	X_4 = small	THEN	A
IF	X_1 = large	AND	X_2 = large	AND	X_3 = medium	AND	X_4 = medium	THEN	B
IF	X_1 = large	AND	X_2 = medium	AND	X_3 = large	AND	X_4 = large	THEN	C

	Family A		Family B		Family C		Evaluation
	Rule - 1		Rule - 2		Rule - 3		
No.	A or B or C or other						
#1	A		B		C		Good
#2	A		B		C		Good
#3	A		B		C		Good
#4	A		other		C		Not Good
#5	A		B		C		Good
#6	A		B		C		Good
#7	A		B		C		Good
#8	A		other		C		Not Good
Success rate	100,0%		75,0%		100,0%		75,0%