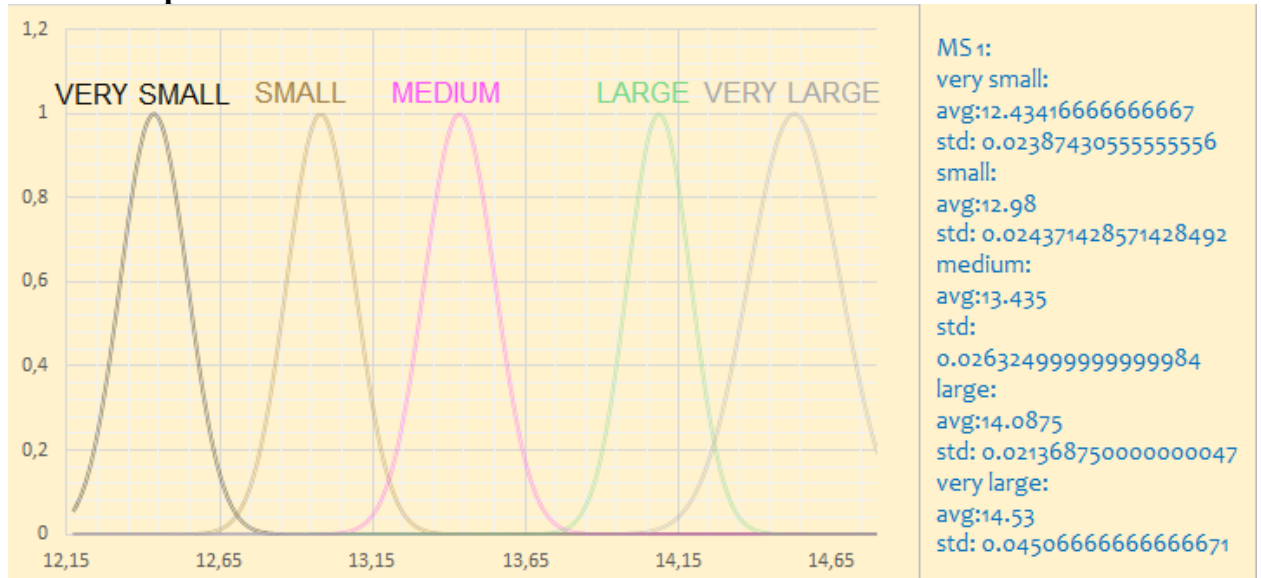


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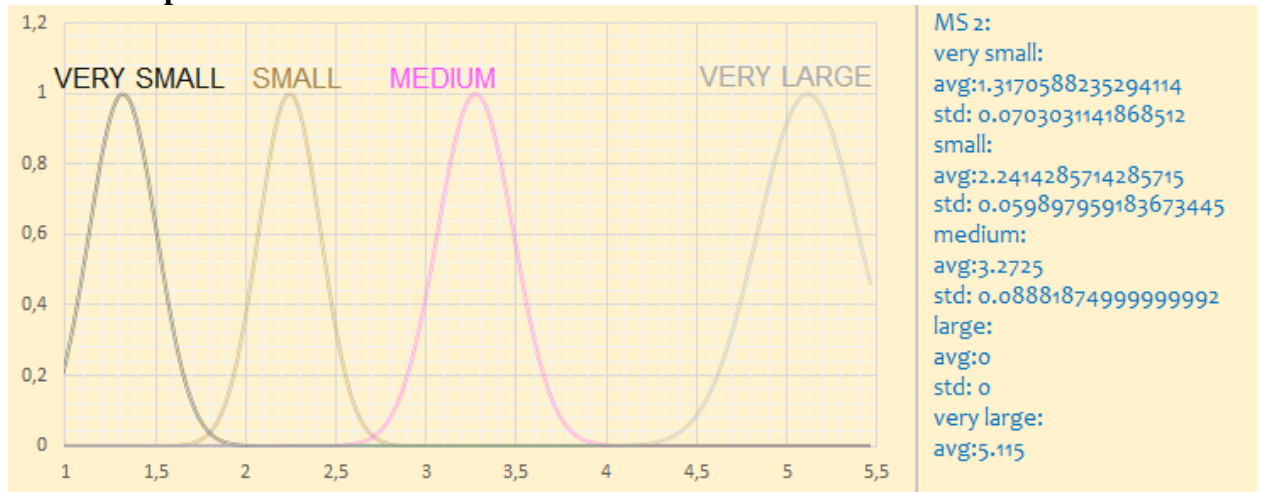
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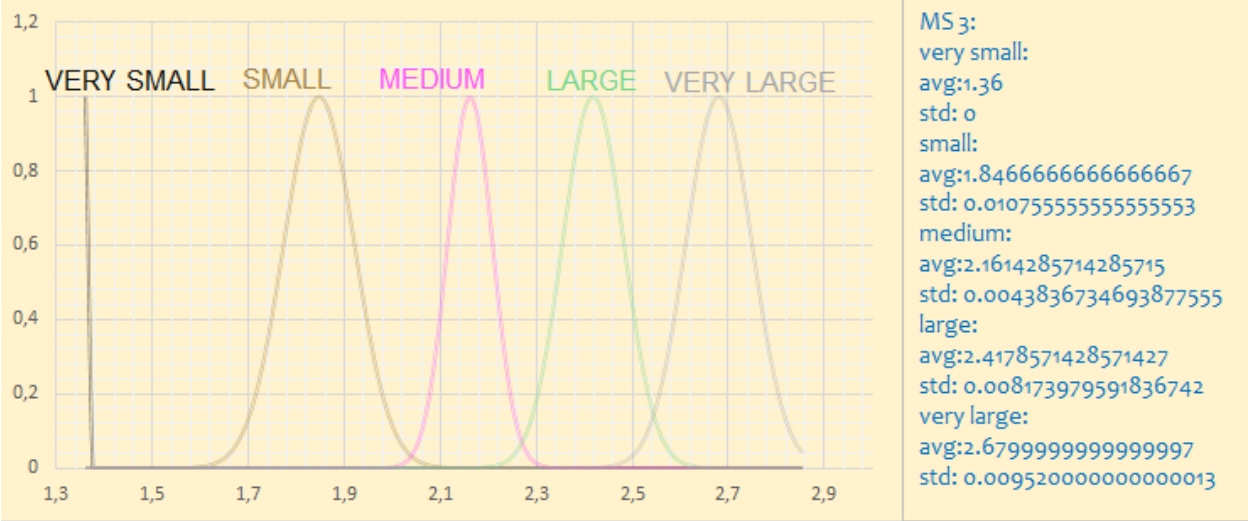
Membership function of attribute №1:



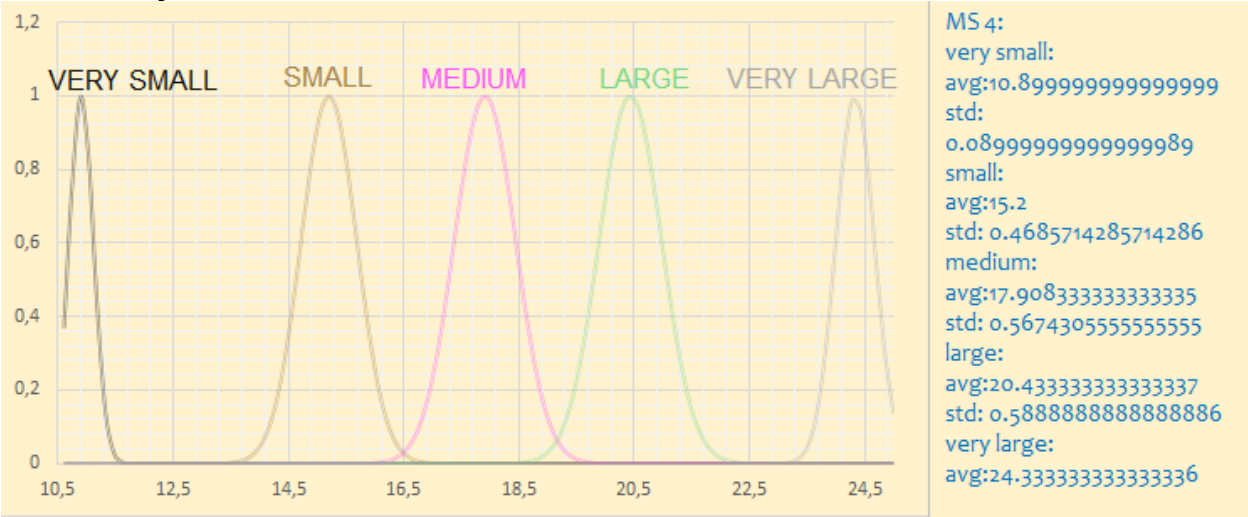
Membership function of attribute №2:



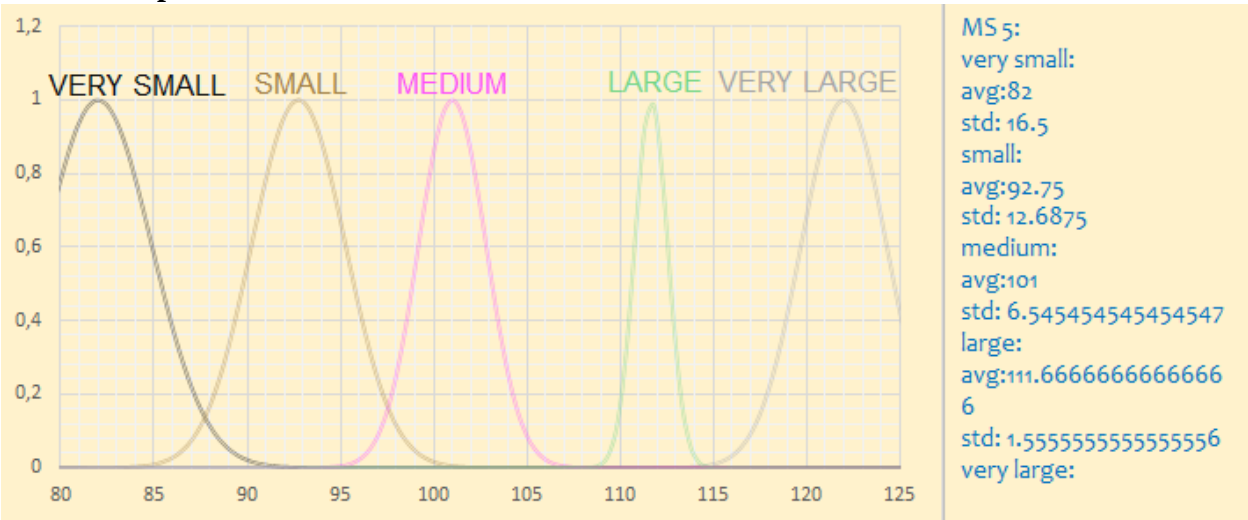
Membership function of attribute №3:



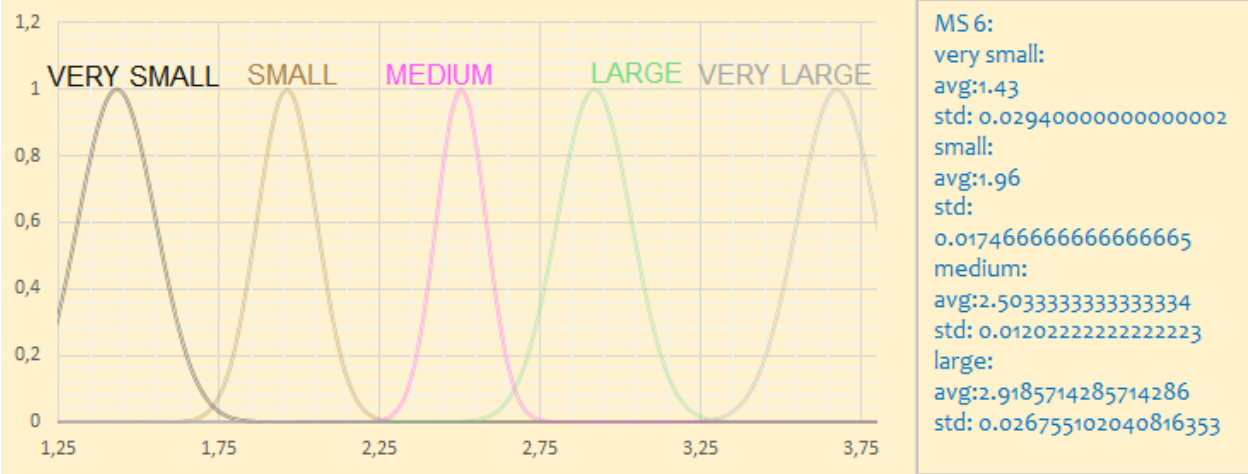
Membership function of attribute №4:



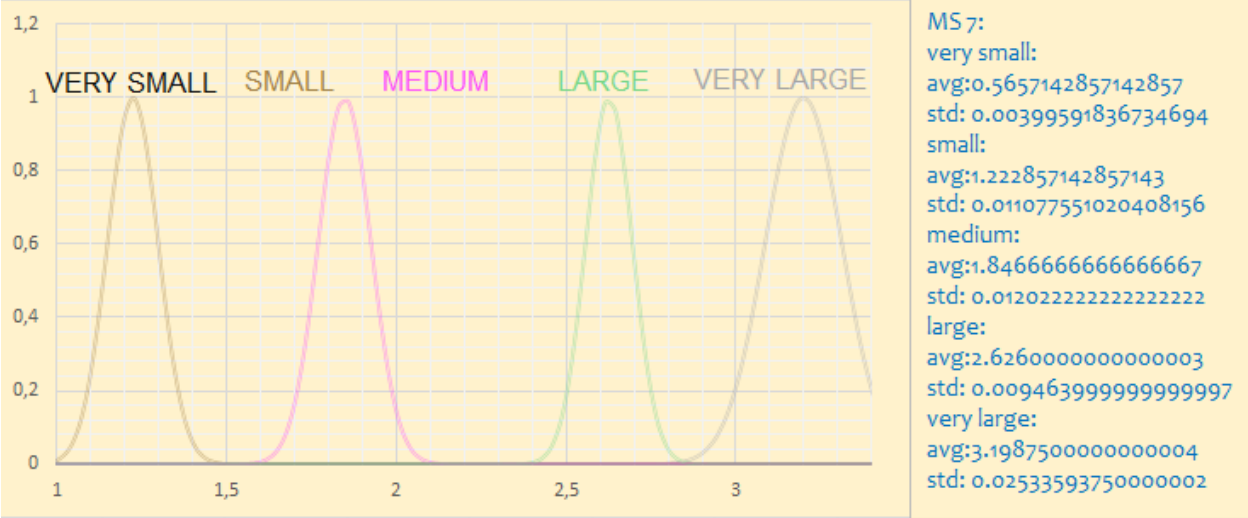
Membership function of attribute №5:



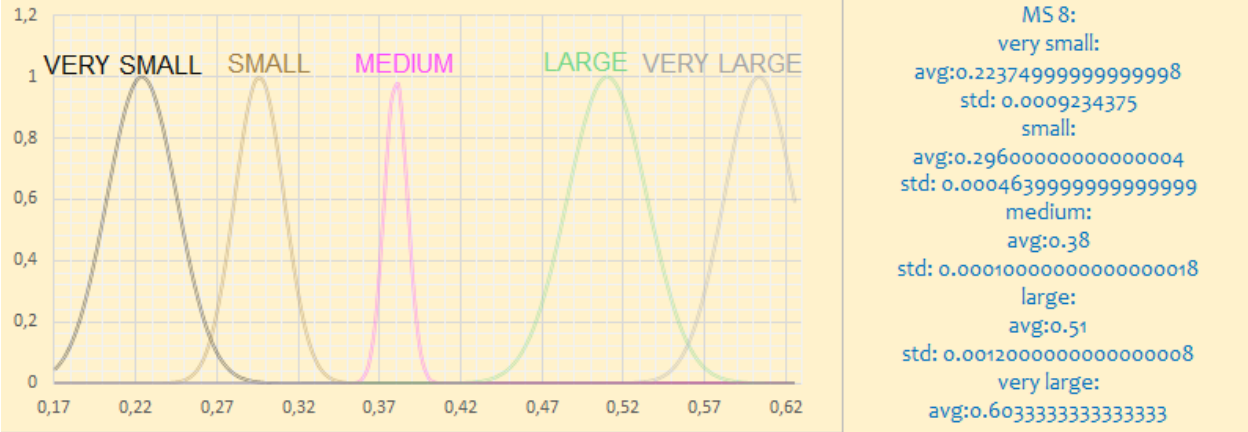
Membership function of attribute №6:



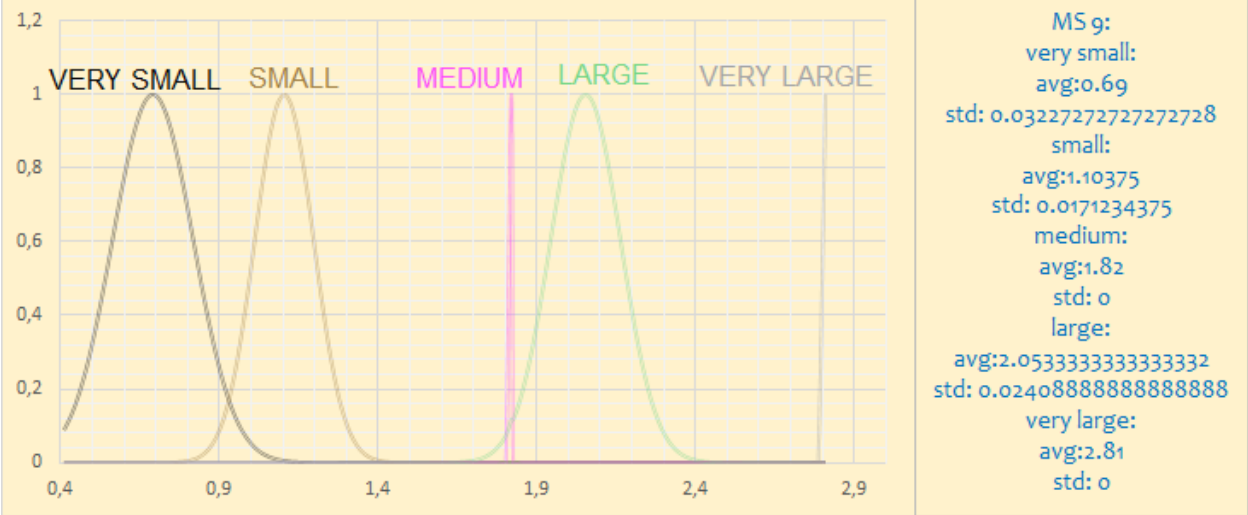
Membership function of attribute №7:



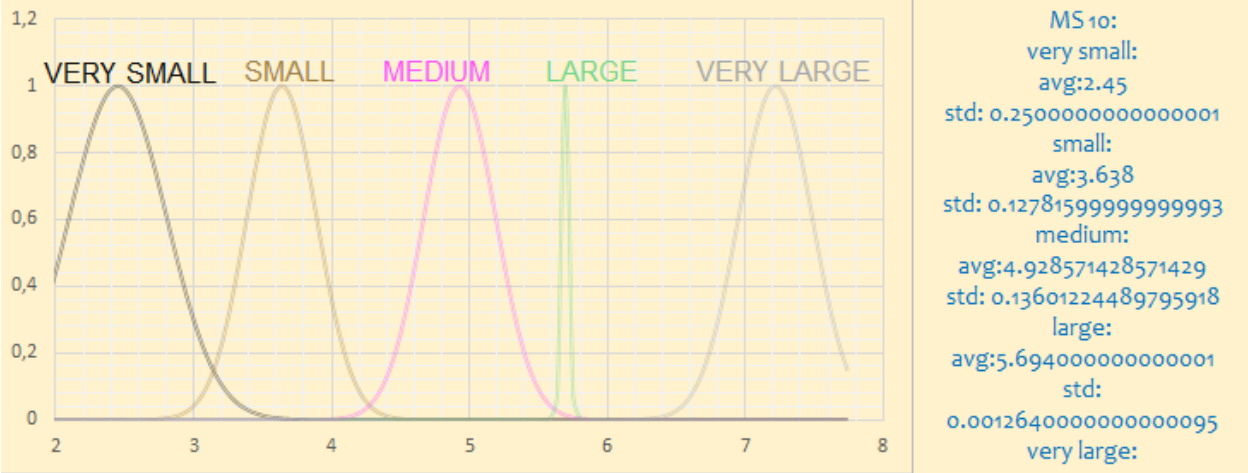
Membership function of attribute №8:



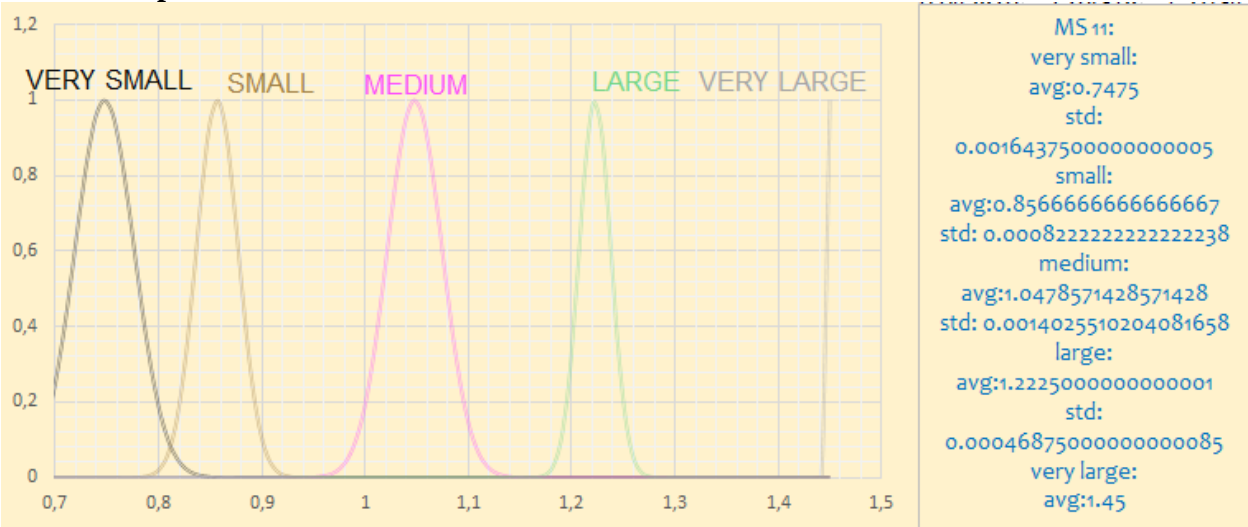
Membership function of attribute №9:



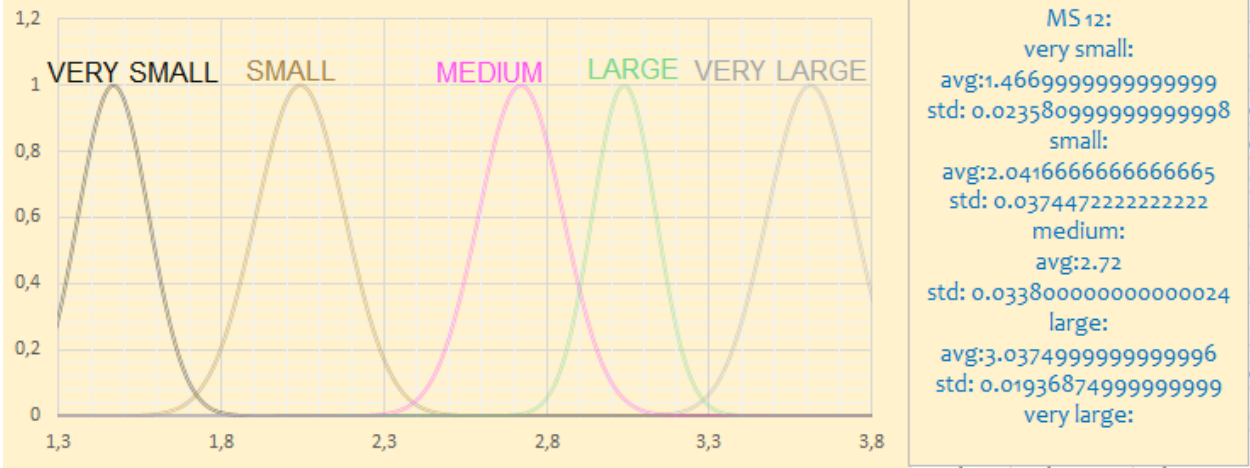
Membership function of attribute №10:



Membership function of attribute №11:



Membership function of attribute №12:



Membership function of attribute №13:

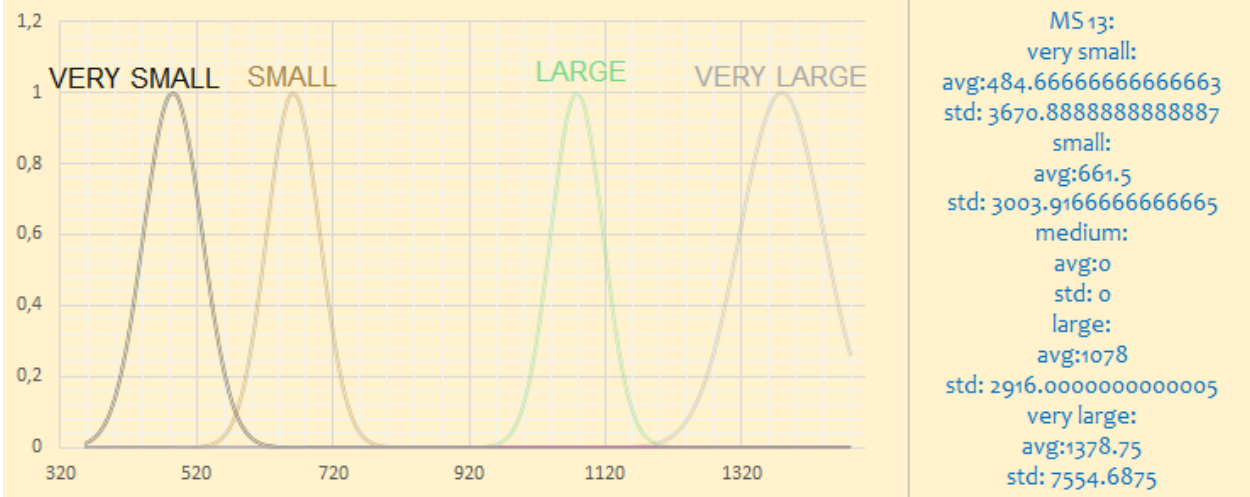


Table of rules

if x1	if x2	if x3	if x4	if x5	if x6	if x7	if x8	if x9	if x10	if x11	if x12	if x13	Then
Large	Small	Large	Medium	Medium	Medium	Large	Small	Large	Medium	Large	Large	Large	1
Large	Small	Large	Very small	Small	Large	Large	Very small	Large	Medium	Large	Medium	Large	1
Medium	Very small	Very large	Medium	Very small	Medium	Medium	Large	Large	Medium	Large	Very small	Small	2
Very small	Very small	Small	Very large	Very small	Medium	Small	Large	Very small	Small	Large	Small	Small	2
Small	Very large	Large	Large	Large	Very small	Very small	Small	Very small	Very large	Very small	Medium	Small	3
Small	Medium	Medium	Very large	Small	Very small	Very small	Large	Very small	Very large	Very small	Medium	Small	3
Very small	Medium	Very small	Large	Very large	Large	Very large	Large	Very small	Large	Small	Small	Large	Other

Table of conformities

Number	Type 1:	Type 2:	Type 3:
1	1	2	3
2	1	3	3
3	1	2	3
4	1	2	3
5	1	1	3
Succes Rate	100%	60%	100%

Table of initial data:

Nº	x1	x2	x3	x4	x5	x6	x7	x8	x9	x10	x11	x12	x13	Type of wine
1	14,23	1,71	2,43	15,6	127	2,8	3,06	0,28	2,29	5,64	1,04	3,92	1065	1
2	13,2	1,78	2,14	11,2	100	2,65	2,76	0,26	1,28	4,38	1,05	3,4	1050	
3	13,16	2,36	2,67	18,6	101	2,8	3,24	0,3	2,81	5,68	1,03	3,17	1185	
4	14,37	1,95	2,5	16,8	113	3,85	3,49	0,24	2,18	7,8	0,86	3,45	1480	
5	13,24	2,59	2,87	21	118	2,8	2,69	0,39	1,82	4,32	1,04	2,93	735	
6	14,2	1,76	2,45	15,2	112	3,27	3,39	0,34	1,97	6,75	1,05	2,85	1450	
7	14,39	1,87	2,45	14,6	96	2,5	2,52	0,3	1,98	5,25	1,02	3,58	1290	
8	14,06	2,15	2,61	17,6	121	2,6	2,51	0,31	1,25	5,05	1,06	3,58	1295	
9	14,83	1,64	2,17	14	97	2,8	2,98	0,29	1,98	5,2	1,08	2,85	1045	
10	13,86	1,35	2,27	16	98	2,98	3,15	0,22	1,85	7,22	1,01	3,55	1045	
1	12,37	0,94	1,36	10,6	88	1,98	0,57	0,28	0,42	1,95	1,05	1,82	520	2
2	12,33	1,1	2,28	16	101	2,05	1,09	0,63	0,41	3,27	1,25	1,67	680	
3	12,64	1,36	2,02	16,8	100	2,02	1,41	0,53	0,62	5,75	0,98	1,59	450	
4	13,67	1,25	1,92	18	94	2,1	1,79	0,32	0,73	3,8	1,23	2,46	630	
5	12,37	1,13	2,16	19	87	3,5	3,1	0,19	1,87	4,45	1,22	2,87	420	
6	12,17	1,45	2,53	19	104	1,89	1,75	0,45	1,03	2,95	1,45	2,23	355	
7	12,37	1,21	2,56	18,1	98	2,42	2,65	0,37	2,08	4,6	1,19	2,3	678	
8	13,11	1,01	1,7	15	78	2,98	3,18	0,26	2,28	5,3	1,12	3,18	502	
9	12,37	1,17	1,92	19,6	78	2,11	2	0,27	1,04	4,68	1,12	3,48	510	
10	13,34	0,94	2,36	17	110	2,53	1,3	0,55	0,42	3,17	1,02	1,93	750	
1	12,86	1,35	2,32	18	122	1,51	1,25	0,21	0,94	4,1	0,76	1,29	630	3
2	12,88	2,99	2,4	20	104	1,3	1,22	0,24	0,83	5,4	0,74	1,42	530	
3	12,81	2,31	2,4	24	98	1,15	1,09	0,27	0,83	5,7	0,66	1,36	560	
4	12,7	3,55	2,36	21,5	106	1,7	1,2	0,17	0,84	5	0,78	1,29	600	
5	12,51	1,24	2,25	17,5	85	2	0,58	0,6	1,25	5,45	0,75	1,51	650	
6	12,6	2,46	2,2	18,5	94	1,62	0,66	0,63	0,94	7,1	0,73	1,58	695	
7	12,25	4,72	2,54	21	89	1,38	0,47	0,53	0,8	3,85	0,75	1,27	720	
8	12,53	5,51	2,64	25	96	1,79	0,6	0,63	1,1	5	0,82	1,69	515	
9	13,49	3,59	2,19	19,5	88	1,62	0,48	0,58	0,88	5,7	0,81	1,82	580	
10	12,84	2,96	2,61	24	101	2,32	0,6	0,53	0,81	4,92	0,89	2,15	590	

Table of validate data:

Nº	x1	x2	x3	x4	x5	x6	x7	x8	x9	x10	x11	x12	x13	Type of wine
1	14,1	2,16	2,3	18	105	2,95	3,32	0,22	2,38	5,75	1,25	3,17	1510	1
2	14,12	1,48	2,32	16,8	95	2,2	2,43	0,26	1,57	5	1,17	2,82	1280	
3	13,75	1,73	2,41	16	89	2,6	2,76	0,29	1,81	5,6	1,15	2,9	1320	
4	14,75	1,73	2,39	11,4	91	3,1	3,69	0,43	2,81	5,4	1,25	2,73	1150	
5	14,38	1,87	2,38	12	102	3,3	3,64	0,29	2,96	7,5	1,2	3	1547	
1	12,21	1,19	1,75	16,8	151	1,85	1,28	0,14	2,5	2,85	1,28	3,07	718	2
2	12,29	1,61	2,21	20,4	103	1,1	1,02	0,37	1,46	3,05	0,906	1,82	870	
3	13,86	1,51	2,67	25	86	2,95	2,86	0,21	1,87	3,38	1,36	3,16	410	
4	13,49	1,66	2,24	24	87	1,88	1,84	0,27	1,03	3,74	0,98	2,78	472	
5	12,99	1,67	2,6	30	139	3,3	2,89	0,21	1,96	3,35	1,31	3,5	985	
1	12,93	2,81	2,7	21	96	1,54	0,5	0,53	0,75	4,6	0,77	2,31	600	3
2	13,36	2,56	2,35	20	89	1,4	0,5	0,37	0,64	5,6	0,7	2,47	780	
3	13,52	3,17	2,72	23,5	97	1,55	0,52	0,5	0,55	4,35	0,89	2,06	520	
4	13,62	4,95	2,35	20	92	2	0,8	0,47	1,02	4,4	0,91	2,05	550	
5	12,25	3,88	2,2	18,5	112	1,38	0,78	0,29	1,14	8,21	0,65	2	855	