

Banana database:

Attribute 1	Attribute 2	Class
-1,8	-1,25	1
-1,79	-1,46	1
-0,379	-0,98	1
0,913	-0,954	1
-2,14	-0,0728	1
-0,888	-1,58	1
-0,881	-1,49	1
-0,45	-1,07	1
0,0544	-0,843	1
1,09	-0,582	1
-1,78	-0,572	1
-1,76	-0,491	1
-0,934	-0,378	1
-0,593	-0,923	1
0,165	-0,828	1
1,22	-1,58	1
-1,86	-0,903	1
1,14	-0,632	1
1,26	-1,83	1
-0,864	-0,521	1
0,143	-1,32	1
0,283	-1,3	1
0,431	-0,41	1
1,15	-1,29	1
1,2	-1,27	1
-0,473	-0,653	1
-0,0187	-0,319	1
-0,652	-1,16	1
-0,294	-0,845	1
-0,236	-1,87	1
-0,204	-0,863	-1
-0,182	-0,919	-1
0,02	1,07	-1
-1,01	1,34	-1
-0,74	1,26	-1
-0,486	0,953	-1
0,571	-0,988	-1
0,675	1,49	-1
0,976	-1,25	-1
-1,66	-1,27	-1
-0,892	1,02	-1
-0,892	1,25	-1
-0,891	0,593	-1
-0,891	1	-1
-0,89	-1,17	-1
-0,889	-0,884	-1
-0,811	-1,59	-1
-0,588	1,05	-1
-0,583	1,29	-1
-0,132	-1,59	-1
-0,0789	-1,27	-1
-0,037	-0,975	-1
-0,0263	-1,16	-1
0,0394	0,659	-1
0,303	-1	-1
-0,733	0,922	-1
-0,666	0,625	-1
-0,581	0,634	-1
-0,522	1,38	-1
-0,451	0,751	-1

Attribute 1:

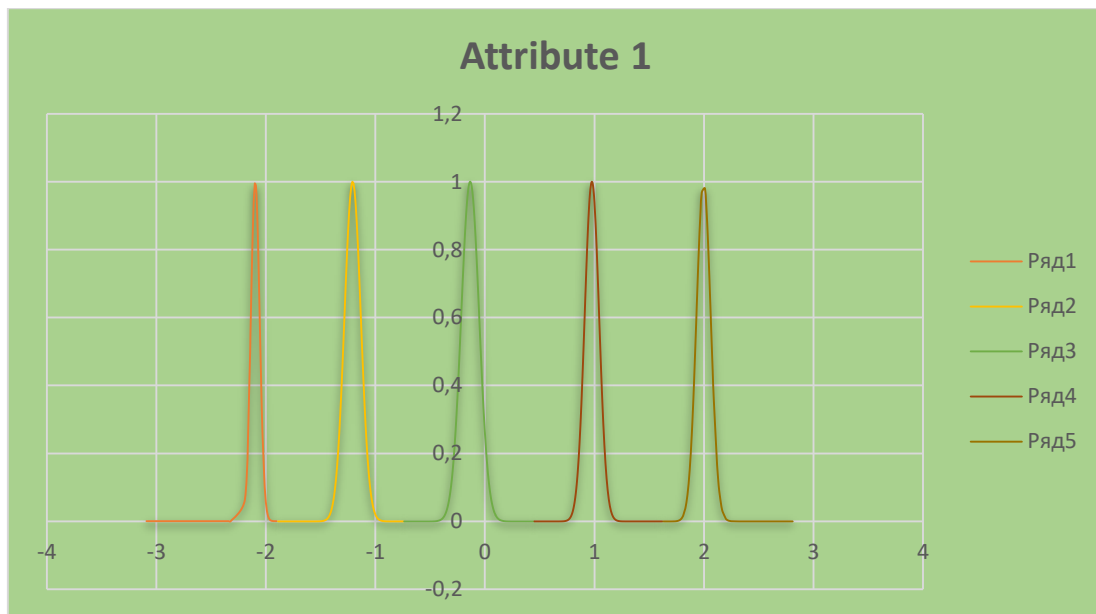
Very small: $f = e^{-\left(\frac{x+2.09603}{0.05683}\right)^2}$;

Small $f = e^{-\left(\frac{x+1.20761}{0.105265}\right)^2}$;

Medium $f = e^{-\left(\frac{x+0.13451}{0.116203}\right)^2}$;

Large $f = e^{-\left(\frac{x-0.976095}{0.093193}\right)^2}$;

Very large $f = e^{-\left(\frac{x-1.996647}{0.092057}\right)^2}$;



Attribute 2:

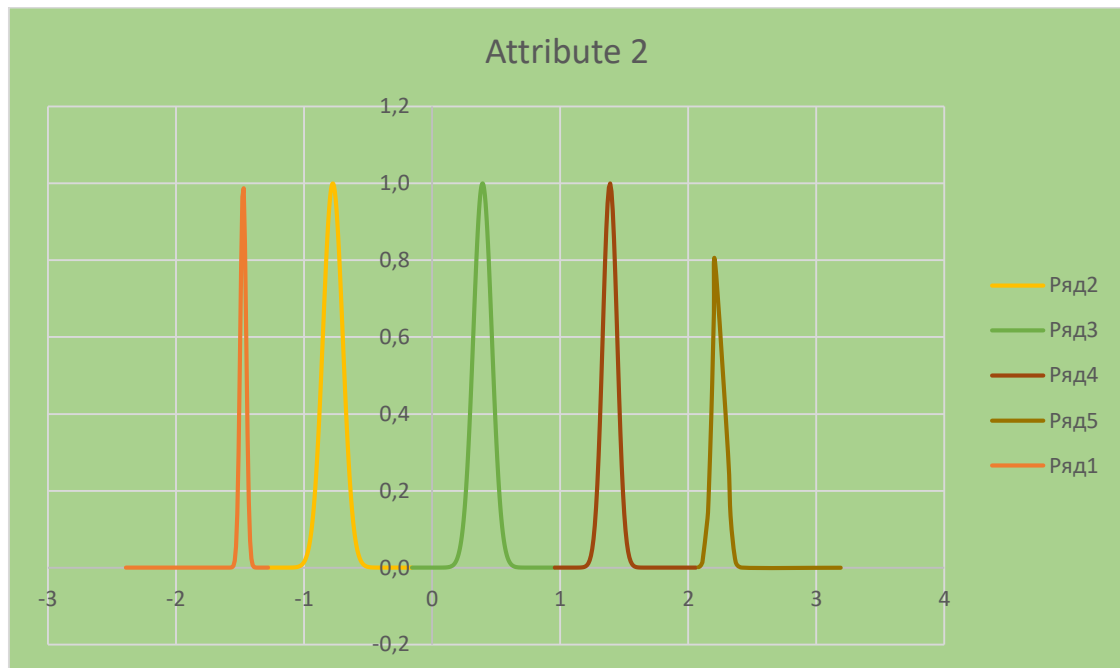
Very small: $f = e^{-\left(\frac{x+1.47377}{0.032943}\right)^2}$;

Small $f = e^{-\left(\frac{x+0.77476}{0.108979}\right)^2}$;

Medium $f = e^{-\left(\frac{x-0.393977}{0.102341}\right)^2}$;

Large $f = e^{-\left(\frac{x-1.388358}{0.079547}\right)^2}$;

Very large $f = e^{-\left(\frac{x-2.240526}{0.063172}\right)^2}$;



Rules:

- 1) If **x1** is very small AND **x2** is medium THEN Class (-1),
- 2) If **x1** small AND **x2** is large THEN Class (1),
- 3) If **x1** is large AND **x2** is very large THEN Other,

Analysis of the rules:

Attribute 1	Attribute 2	Class 1	Class -1	Result
1,42	1,49	1	-1	Good
-1,55	0,588	1	-1	Good
0,854	0,0949	1	-1	Good
-0,268	0,75	1	-1	Good
-0,57	0,502	1	-1	Good
-0,381	-0,959	1	-1	Good
0,236	0,443	1	-1	Good
0,898	-0,719	1	-1	Good
-0,432	1,13	1	-1	Good
1,14	-0,938	-1	-1	No good
0,0935	2,1	1	-1	Good
0,463	0,935	1	-1	Good
-0,23	-1,02	1	-1	Good
0,671	0,181	1	-1	Good
0,168	1,7	1	-1	Good
-0,175	0,0644	1	-1	Good
0,796	0,423	1	-1	Good
-0,824	-0,471	1	-1	Good
-0,93	-0,502	1	Other	No good
-1,06	1,49	1	-1	Good
0,375	1,27	1	-1	Good
2,45	1,25	1	-1	Good
-2,04	0,401	1	-1	Good
0,0735	-1,01	1	-1	Good
-0,737	-0,0677	1	-1	Good
0,848	0,402	1	-1	Good
0,281	0,343	1	-1	Good
-1,13	-0,0974	1	-1	Good
-0,821	-1,44	1	-1	Good
-0,211	-0,334	1	-1	Good
-0,364	-1,4	Other	-1	No good
-1,27	-0,673	1	-1	Good
0,784	1,39	1	-1	Good
-1,02	0,883	1	-1	Good
0,833	-0,0565	1	-1	Good
0,478	1,31	1	0	Good
-1,14	-0,245	1	-1	Good
1,14	0,494	1	-1	Good
0,667	-1,01	1	-1	Good
2,17	0,926	1	-1	Good
-0,129	0,877	1	-1	Good
-0,581	0,582	1	-1	Good
0,427	1,77	1	-1	Good
-0,138	0,425	-1	-1	No good
-1,98	0,875	1	-1	Good
-0,337	0,559	1	-1	Good
-0,369	-0,965	1	-1	Good
0,325	-0,153	1	-1	Good
-0,232	-0,364	1	-1	Good
-0,749	1,26	1	-1	Good
-0,566	1,19	1	-1	Good
1,33	-0,774	1	1	No good
-1,25	-1,47	1	-1	Good
0,00453	1,47	1	-1	Good
-1,81	-0,543	1	-1	Good
-0,307	0,938	1	-1	Good
-1,18	0,732	1	-1	Good
-1,68	0,93	1	-1	Good
-1,52	-1,4	1	-1	Good
-1,45	-0,701	1	-1	Good
		95%	97%	92%