

Results from SVM using Polynomial Kernel

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Dataset 1

Degree	Misclassified	95% CI	Time
2	91 / 5000	[0.014495, 0.021905]	20:17
3	12 / 5000	[0.001044, 0.003756]	12:12
4	33 / 5000	[0.004356, 0.008844]	12:58
5	13 / 5000	[0.001188, 0.004012]	12:13

Dataset 2

Degree	Misclassified	95% CI	Time
2	239 / 5000	[0.041886, 0.053714]	25:12
3	111 / 5000	[0.018116, 0.026284]	17:58
4	108 / 5000	[0.017570, 0.025630]	16:07
5	110 / 5000	[0.017934, 0.026066]	13:03

Dataset 3

Degree	Misclassified	95% CI	Time
2	85 / 5000	[0.013417, 0.020583]	14:00
3	153 / 5000	[0.025826, 0.035374]	32:34
4	1909 / 5000	[0.368334, 0.395266]	16:38
5	1419 / 5000	[0.271303, 0.296297]	14:57

Dataset 4

Degree	Misclassified	95% CI	Time
2	8 / 5000	[0.000492, 0.002708]	0:55
3	3 / 5000	[-0.000079, 0.001279]	6:39
4	1256 / 5000	[0.239178, 0.263222]	14:25
5	1238 / 5000	[0.235636, 0.259564]	19:38

Dataset 5

Degree	Misclassified	95% CI	Time
2	1623 / 5000	[0.311621, 0.337579]	12:52
3	1627 / 5000	[0.312413, 0.338387]	19:23
4	1776 / 5000	[0.341935, 0.368465]	38:14
5	2208 / 5000	[0.427836, 0.455364]	18:32

We ran our SVM on csc. Our Kernel function in a polynomial function. The constant used by our Kernel function, c is equal to 1. We trained and tested the datasets with polynomial degree 2, 3, 4 and 5.