Relatório LAB 5 AA – SVM (depois passamos para PDF)

2.1

2.2

2.3

2.4

2.5

3.1

3.2

4.1 – Testing SVM with Poly kernel and findind optimal polynomial order

P = 1 -> Error = 46%, SV: 100

P = 2 -> Error = 35%, SV: 100

P = 3 -> Error = 35%, SV: 99

P = 4 -> Error = 20%, SV: 83

P = 5 -> Error = 14%, SV: 93

P = 6 -> Error = 0%, SV: 77

P = 7 -> Error = 0%, SV: 91

4.2 - Testing SVM with RBF kernel and sigma value

σ = 2 -> Error = 46%, SV: 100

σ = 1 -> Error = 30%, SV: 100

σ = 0.7 -> Error = 6%, SV: 98

σ = 0.5 -> Error = 0%, SV: 98

σ = 0.1 -> Error = 0%, SV: 100

σ = 0.01 -> Error = 0%, SV: 100

4.3 - Testing SVM with RBF kernel and sigma value W/Box Constraint

σ = 5 -> SV: 12

σ = 2 -> SV: 10

σ = 1 -> SV: 10

σ = 0.5 -> SV: 23

4.4

17 SV

4.5