**LING 572 – HW8**

**Q1-2**

Table 1: Results on the binary task

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Kernel | gamma | coef0 | degree | total\_sv | Training Acc | Test Acc | Test Acc from Q2 |
| linear | - | - | - | 535 | 99.7222% | 95% | 95% |
| polynomial | 1 | 0 | 2 | 792 | 99.7222% | 92% | 92% |
| polynomial | 0.1 | 0.5 | 2 | 775 | 99.7222% | 96.5% | 96.5% |
| RBF | 0.5 | - | - | 1798 | 99.7222% | 50% | 50% |
| sigmoid | 0.5 | -0.2 | - | 1214 | 53.6667% | 40.5% | 40.5% |

Results of the last two columns are exactly identical. This is because we have used the same test data, model file and as well as implemented the same kernel function formula in the decoder.

*End of HW8 – Joint submission by*

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