Ling 572 HW3

Michael Roylance, Olga Whelan

**Q1** train accuracy mean = 0.9444444444444444

test accuracy mean = 0.8966666666666666

**Q3**

|  |  |  |
| --- | --- | --- |
| cond\_prob\_delta | Training accuracy | Test accuracy |
| 0.1 | 0.930740740741 | 0.88 |
| 0.5 | 0.910740740741 | 0.863333333333 |
| 1.0 | 0.897407407407 | 0.84 |
| 2.0 | 0.879259259259 | 0.823333333333 |

**Q4**

|  |  |  |
| --- | --- | --- |
| cond\_prob\_delta | Training accuracy | Test accuracy |
| 0.1 | 0.957777777778 | 0.91 |
| 0.5 | 0.950740740741 | 0.91 |
| 1.0 | 0.944814814815 | 0.893333333333 |
| 2.0 | 0.935555555556 | 0.89 |

**Q5**

|  |  |  |
| --- | --- | --- |
| cond\_prob\_delta | Training accuracy | Test accuracy |
| 0.1 | 0.957407407407 | 0.9 |
| 0.5 | 0.948888888889 | 0.89 |
| 1.0 | 0.942592592593 | 0.883333333333 |
| 2.0 | 0.932222222222 | 0.883333333333 |

**Q6**