

[ML] Project 3 Documentation
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1. Polynomial kernel- 16% data

I looped through each variable keeping the other ones fixed. These gave me the initial values in the first row- I then proceeded to fine tune them.

C	degree	gamma	coef0	accuracy
10	2	0.02	0.4	96.133
10	3	0.02	0.4	96.836
355	3	0.04	0.8	96.134

2. Polynomial kernel- 8% data

I started with the best parameters from the 16% section, and then proceeded to fine tune.

C	degree	gamma	coef0	accuracy
10	3	0.02	0.4	95.079
10	3	0.01	0.4	95.958
10	3	0.01	0.39	95.255

3. Exponential kernel- 8% data

I looped through each variable keeping the other ones fixed. These gave me the initial values in the first row- I then proceeded to fine tune them.

C	gamma	accuracy
10	0.01	94.552
100	0.01	94.376

10	0.03	95.431
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4. Exponential kernel- 16% data

I started with the best parameters from the 8% section, and then proceeded to fine tune.

C	gamma	accuracy
10	0.03	96.309
10	0.05	95.255
10	0.005	97.364