

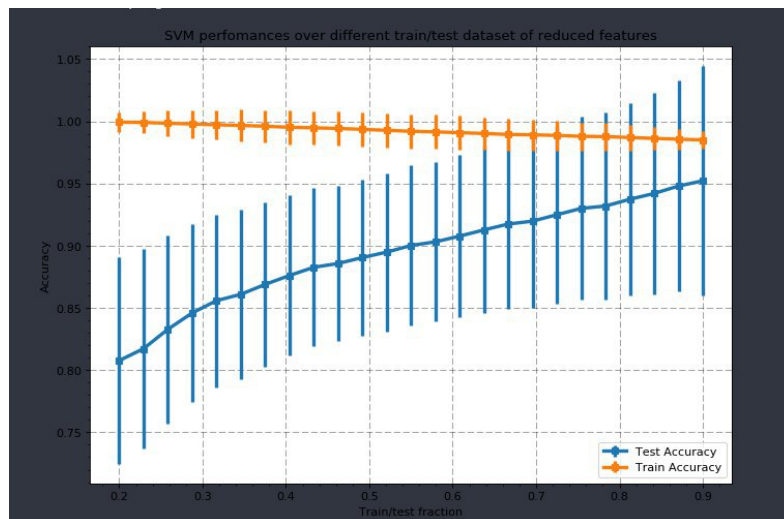
The best k (which represent the number of top features retained) is chosen as the one that outputs the highest performances using leave-one-out.

Step 5:

Results: $k = 21$, leave-3-out: 96% accuracy

Accuracy varying train/test dimensions (figure) (note: error bars are standard deviation)

The figure results from 5000 randomly sampled train/test dataset, fixed the train/test fraction



The 21 features selected are:

Feature index	Feature Name	Band Frequency	Channel
66	Flatness	7:13Hz	1
67	Flatness	13:30Hz	1
71	Entropy	13:30Hz	1
82	Range Lower Margin	0,5:4Hz	2
115	Skew	4:7Hz	2
165	Range Width	4:7Hz	3
169	Range SD	4:7Hz	3
173	Range CV	4:7Hz	3
192	Kurtosis	0,5:4Hz	3
244	Range SD	7:13Hz	4
256	Amplitude Power	7:13Hz	4
260	Amplitude SD	7:13Hz	4
262	Skew	0,5:4Hz	4
272	Envelope Mean	7:13Hz	4
276	Envelope SD	7:13Hz	4
287	Flatness	4:7Hz	4
288	Flatness	7:13Hz	4
291	Entropy	4:7Hz	4
292	Entropy	7:13Hz	4
304	Range Lower Margin	0,5:4Hz	5
320	Range CV	0,5:4Hz	5

Channel 1: FC5

Channel 2: FC6

Channel 3: C5

Channel 4: C6

Channel 5: Cz