

Supplementary Information for

“Quantum support vector machines for classification and regression on a

trapped-ion quantum computer”

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The financial dataset used for QSVR

Table S1: Financial dataset used for QSVR (training data)

Table S2: Financial dataset used for QSVR (test data)

Table S1 Financial dataset used for QSVR (training data)

Number	SSE Index	WTI Crude Oil	US Dollar Index	UK Nickel
1	3676.59	68.35	92.514	19506
2	3536.29	74.83	94.353	18342
3	3581.73	69.29	92.033	19789
4	3272.00	96.35	106.804	21613
5	3547.34	83.57	94.121	19448
6	3228.06	97.59	107.911	19802
7	3607.43	66.26	96.114	20030
8	3387.64	108.43	104.909	21824
9	3067.76	108.26	103.802	30114
10	3253.69	112.12	98.499	31583
11	3662.60	70.46	92.614	19623
12	3489.15	92.10	96.188	24396
13	3047.06	104.69	103.230	31771
14	3567.10	68.59	92.449	19332
15	3693.13	68.14	92.48	20190
16	3579.54	78.90	95.722	20734
17	3562.70	69.95	96.338	20141
18	3186.27	94.42	106.104	22492
19	3429.58	91.32	95.392	23398
20	3607.09	72.61	92.919	19401
21	3518.42	82.81	93.326	19574
22	3613.97	71.97	93.176	19358
23	3609.86	83.76	93.809	20306
24	3593.15	82.96	93.728	20050
25	3275.76	97.26	106.331	21700
26	3409.21	111.76	104.261	23158
27	3555.26	82.12	94.775	22176
28	3597.43	82.64	94.901	22064
29	3284.83	120.67	104.151	27264
30	3613.07	73.98	93.335	19387
31	3625.13	71.12	96.489	19615
32	3558.28	81.31	93.961	19294
33	3189.04	88.54	105.566	22210
34	3167.13	94.29	99.924	32483
35	3516.30	68.44	92.512	19656
36	3582.08	76.75	96.544	20336
37	3524.74	69.09	93.038	19678
38	3522.16	68.74	92.694	19011
39	3576.89	65.57	96.024	19946
40	3637.57	72.36	95.881	20230

Table S2 Financial dataset used for QSVR (test data)

Number	SSE Index	WTI Crude Oil	US Dollar Index	UK Nickel
1	3561.76	80.44	94.080	18918
2	3582.60	83.76	93.625	19739
3	3569.91	85.43	95.723	22073
4	3477.13	65.64	92.971	18893
5	2928.51	98.54	101.769	32636
6	3675.19	69.30	92.650	19713
7	3186.43	114.67	101.766	28392
8	3498.54	80.86	93.853	19162
9	3642.22	73.30	93.03	19351
10	3146.86	110.29	102.097	27732
11	3054.99	106.13	104.897	27810
12	3398.62	105.76	104.464	22698
13	3238.95	121.51	103.218	28023
14	3546.94	80.64	94.519	18978
15	3225.64	106.95	100.326	33175
16	3675.02	72.38	96.015	19624
17	3582.83	75.45	93.381	18946
18	3462.31	95.72	96.694	24282
19	3130.24	115.07	101.698	28284
20	3320.15	104.27	104.192	24038
21	3004.14	103.09	103.689	28185
22	3271.03	114.93	98.615	32380
23	3446.98	66.59	93.145	19193
24	3282.72	99.27	98.627	33223
25	3186.82	104.25	99.913	32981
26	3715.37	70.45	92.652	19726
27	3267.2	106.19	103.981	24449
28	3573.84	66.50	96.158	19953
29	3451.41	91.59	96.619	24361
30	3465.83	93.66	95.697	23406
31	3628.49	72.23	93.460	19221
32	3586.08	79.46	96.326	20383
33	3544.48	84.05	93.879	19702
34	3263.79	122.11	102.546	28855
35	3266.60	107.82	97.875	32893
36	3656.22	72.61	92.534	20016
37	3567.44	81.22	95.625	21794
38	3595.09	72.05	96.370	20189
39	3313.58	104.09	107.829	21880
40	3214.50	105.96	99.055	32725