

An expert judgment model to predict early stages of the COVID-19 pandemic in the United States

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Dep. Variable:	Expert specific minus equal weights				R-squared:	0.448
Model:	OLS				Adj. R-squared:	0.429
Method:	Least Squares				F-statistic:	23.67
Date:	Sat, 02 Apr 2022				Prob (F-statistic):	3.06e-122
Time:	12:20:38				Log-Likelihood:	3407.5
No. Observations:	1207				AIC:	-6733.
	Expert id	β	s.e.(β)	t	P> t	[0.025 0.975]
0		0.0086	0.002	3.924	0.000	0.004 0.013
1		0.0009	0.006	0.170	0.865	-0.010 0.012
2		0.0022	0.002	1.176	0.240	-0.001 0.006
3		-0.0126	0.002	-6.551	0.000	-0.016 -0.009
4		0.0511	0.002	25.179	0.000	0.047 0.055
5		-0.0015	0.003	-0.475	0.635	-0.008 0.005
6		-0.0079	0.002	-4.360	0.000	-0.011 -0.004
7		0.0244	0.003	7.285	0.000	0.018 0.031
8		-0.0063	0.002	-2.602	0.009	-0.011 -0.002
9		-0.0060	0.002	-2.745	0.006	-0.010 -0.002
10		0	0.008	0	1.000	-0.017 0.017
11		-0.0037	0.005	-0.720	0.472	-0.014 0.006
12		-0.0085	0.002	-4.628	0.000	-0.012 -0.005
13		-0.0080	0.002	-4.406	0.000	-0.012 -0.004
14		0	0.008	0	1.000	-0.017 0.017
15		-0.0005	0.005	-0.115	0.909	-0.010 0.009
16		-0.0101	0.002	-5.038	0.000	-0.014 -0.006
17		-0.0065	0.002	-3.065	0.002	-0.011 -0.002
18		-0.0030	0.004	-0.757	0.449	-0.011 0.005
19		0.0023	0.002	1.254	0.210	-0.001 0.006
20		0.0008	0.007	0.107	0.915	-0.014 0.015
21		-0.0019	0.004	-0.472	0.637	-0.010 0.006
22		0.0124	0.005	2.674	0.008	0.003 0.021
23		-0.0050	0.003	-1.496	0.135	-0.012 0.002
24		0.0082	0.002	4.044	0.000	0.004 0.012
25		-0.0024	0.003	-0.841	0.401	-0.008 0.003
26		-0.0071	0.003	-2.652	0.008	-0.012 -0.002
27		-0.0085	0.002	-3.794	0.000	-0.013 -0.004
28		-0.0008	0.002	-0.346	0.730	-0.005 0.004
29		0	0.003	0.001	0.999	-0.006 0.006
30		-0.0072	0.003	-2.739	0.006	-0.012 -0.002
31		-0.0022	0.003	-0.677	0.499	-0.009 0.004
32		0.0031	0.003	0.956	0.340	-0.003 0.009
33		0.0112	0.002	5.293	0.000	0.007 0.015
34		-0.0033	0.003	-0.970	0.332	-0.010 0.003
35		-0.0005	0.005	-0.100	0.921	-0.010 0.009
36		-0.0013	0.005	-0.273	0.785	-0.011 0.008
37		0.0043	0.005	0.931	0.352	-0.005 0.013
38		-0.0012	0.004	-0.317	0.751	-0.009 0.006
39		-0.0016	0.006	-0.294	0.769	-0.012 0.009
40		-0.0033	0.003	-1.024	0.306	-0.010 0.003

Table 4. Linear regression that compares the weights assigned to each expert using the expert-specific performance weighting and assigning experts equal weights. A positive (negative) estimate of β for expert i indicates an equal weighted ensemble assigned less (more) weight than this performance based ensemble over all surveys.