Part C – Outlier Detection

Using the one-class SVM with the temperature and the proportion of fully vaccinated people as attributes, 17 anomalies were found.

From the results, it seems that the algorithm is classifying points that have high temperature but low vaccination proportion as outliers. It is also doing the same for points with low temperatures but high proportion of vaccinated people.

	temperature	proportionfullyvaccinated
5	13.4	2.520
26	7.2	0.000
258	−26.1	81.300
288	−31.4	4.225
290	−20.1	40.925
314	−32.9	4.225
404	−34.0	69.225
508	−33.8	69.225
709	21.7	49.440
735	21.7	49.440
1093	21.0	15.975
1575	18.9	91.500
1601	18.9	91.500
1606	−4.2	91.950
1632	−5.9	91.950
1678	19.2	91.400
1679	20.3	91.500

The red points in the scatterplot below are the outliers.