

Correlation Matrix

Correlation Matrix		PM2.5	O3	SO2	NO2	PM10	CO	tempC	humidity	windspeedKmph	pressure	uvIndex	Confirmed
PM2.5	Spearman's rho	—											
	p-value	—											
O3	Spearman's rho	0.031	—										
	p-value	0.095	—										
SO2	Spearman's rho	0.230 ***	-0.027	—									
	p-value	< .001	0.154	—									
NO2	Spearman's rho	0.404 ***	-0.135 ***	0.391 ***	—								
	p-value	< .001	< .001	< .001	—								
PM10	Spearman's rho	0.602 ***	0.491 ***	0.258 ***	0.064	—							
	p-value	< .001	< .001	< .001	0.104	—							
CO	Spearman's rho	0.415 ***	-0.136 ***	0.233 ***	0.549 ***	0.114 **	—						
	p-value	< .001	< .001	< .001	< .001	0.004	—						
tempC	Spearman's rho	0.309 ***	0.020	0.231 ***	0.175 ***	0.272 ***	0.432 ***	—					
	p-value	< .001	0.203	< .001	< .001	< .001	< .001	—					
humidity	Spearman's rho	0.032	-0.336 ***	-0.163 ***	-0.168 ***	-0.210 ***	-0.052 **	-0.065 ***	—				
	p-value	0.071	< .001	< .001	< .001	< .001	0.005	< .001	—				
windspeedKmph	Spearman's rho	-0.168 ***	0.158 ***	-0.066 ***	-0.255 ***	-0.217 ***	-0.239 ***	-0.210 ***	0.024	—			
	p-value	< .001	< .001	< .001	< .001	< .001	< .001	< .001	0.066	—			
pressure	Spearman's rho	0.073 ***	-0.122 ***	-0.013	0.111 ***	-0.053	0.034	0.058 ***	-0.115 ***	-0.268 ***	—		
	p-value	< .001	< .001	0.470	< .001	0.132	0.072	< .001	< .001	< .001	—		
uvIndex	Spearman's rho	0.252 ***	0.069 ***	0.196 ***	0.157 ***	0.332 ***	0.411 ***	0.946 ***	-0.171 ***	-0.181 ***	0.114 ***	—	
	p-value	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	—	
Confirmed	Spearman's rho	-0.023	-0.038 *	0.102 ***	-0.026	0.313 ***	0.026	0.114 ***	-0.029 *	0.146 ***	0.079 ***	0.141 ***	—
	p-value	0.210	0.019	< .001	0.190	< .001	0.173	< .001	0.032	< .001	< .001	< .001	—

Note. * p < .05, ** p < .01, *** p < .001

Linear Regression

Model Fit Measures		
Model	R	R²
1	0.672	0.451

Model Coefficients - Confirmed				
Predictor	Estimate	SE	t	p
Intercept	-68023.44	16552.03	-4.110	< .001
PM2.5	-59.48	34.31	-1.734	0.083
O3	-48845.10	14315.37	-3.412	< .001
SO2	5132.34	333.24	15.401	< .001
NO2	-191.04	24.79	-7.708	< .001
PM10	60.27	12.82	4.701	< .001
CO	684.68	832.34	0.823	0.411
tempC	118.67	35.91	3.304	0.001
humidity	8.38	5.98	1.402	0.161
windspeedKmph	76.49	17.67	4.329	< .001
pressure	69.16	16.07	4.303	< .001
uvIndex	-415.09	169.05	-2.455	0.014

References

[1] The jamovi project (2020). *jamovi*. (Version 1.2) [Computer Software]. Retrieved from <https://www.jamovi.org>.

[2] R Core Team (2019). *R: A Language and environment for statistical computing*. (Version 3.6) [Computer software]. Retrieved from <https://cran.r-project.org/>.

