# SARIMAX Model Results Summary

Dependent Variable: log(Close)

Number of Observations: 1386

Model: SARIMAX(1, 1, 1)

Date: Mon, 01 Jul 2024

Time: 05:39:59

Sample: 0 - 1386

Covariance Type: opg

## Model Fit Statistics

Log Likelihood: 4693.574

AIC (Akaike Information Criterion): -9369.148

BIC (Bayesian Information Criterion): -9322.047

HQIC (Hannan-Quinn Information Criterion): -9351.531

## Parameter Estimates

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| coef | std err | z | P>|z| | 0.025 | 0.975 |
| BullR | -0.0002 | 0.001 | -0.192 | 0.848 | -0.002 |
| Covid-19 | 0.0237 | 0.012 | 1.969 | 0.049 | 0.000 |
| GDP | 0.2191 | 0.083 | 2.653 | 0.008 | 0.057 |
| Money Supply | -0.0609 | 0.320 | -0.190 | 0.849 | -0.688 |
| Brexit | 0.0002 | 0.117 | 0.002 | 0.998 | -0.229 |
| PM\_Code | -0.0066 | 0.781 | -0.008 | 0.993 | -1.538 |
| ar.L1 | 0.4743 | 0.143 | 3.324 | 0.001 | 0.195 |
| ma.L1 | -0.3999 | 0.147 | -2.712 | 0.007 | -0.689 |
| sigma2 | 6.665e-05 | 9.28e-07 | 71.855 | 0.000 | 6.48e-05 |

## Diagnostics

Ljung-Box (L1) (Q): 0.00

Prob(Q): 0.99

Jarque-Bera (JB): 19988.06

Prob(JB): 0.00

Heteroskedasticity (H): 8.07

Skew: -0.26

Prob(H) (two-sided): 0.00

Kurtosis: 21.60

## Warnings

[1] Covariance matrix calculated using the outer product of gradients (complex-step).