

R GUI APPLICATION: STOCK PRICE PREDICTION (LQ45) USING THE GEOMETRIC BROWNIAN MOTION (GBM) METHOD WITH MONTE CARLO SIMULATION

Develop By

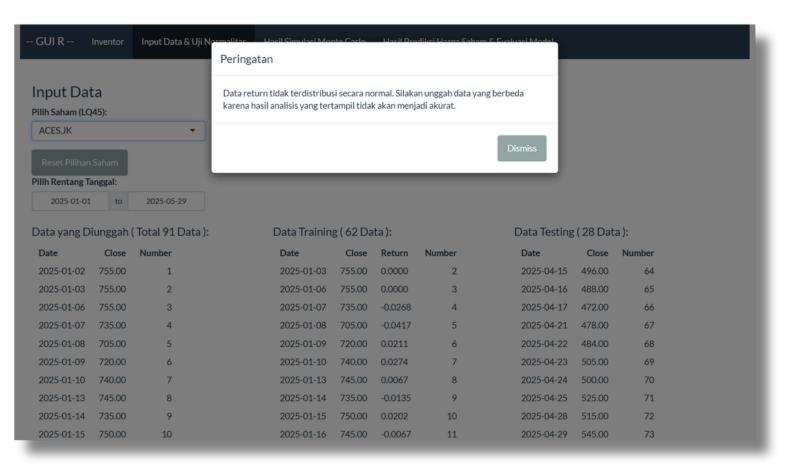
Zahra Ulaya Sifa

github.com/zahraulayasifa-projects www.linkedin.com/in/zahraulayasifa/ zahraulayasifa@gmail.com Prediksi Harga Saham (LQ45) Menggunakan Metode Geometric Brownian Motion (GBM) dengan Simulasi Monte Carlo

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```
2025-05-14 540.00
                        81
2025-05-15 525.00
2025-05-16
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2025-05-19 525.00
                        84
2025-05-20 530.00
                        85
2025-05-21 530.00
                        86
2025-05-22 545.00
                        87
2025-05-23
           535.00
                        88
2025-05-26
           530.00
2025-05-27 530.00
                        90
2025-05-28 515.00
                        91
```

Uji Normalitas K-S Return Data Training

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Uji Normalitas (Kolmogorov-Smirnov Test) pada Return Harian Data Training:

~ Hipotesis:

H0: Data return mengikuti distribusi normal

H1: Data return tidak mengikuti distribusi normal

~ Taraf Signifikansi: alpha = 0.05

~ Daerah Kritis: Tolak H0 jika p-value < alpha

~ Statistik Uji: D = 0.1229 dan p-value = 0.178

~ Kesimpulan: Gagal menolak H0, data return mengikuti distribusi normal karena nilai p-value = 0.178 >= alpha = 0.05
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Evaluasi Model Prediksi

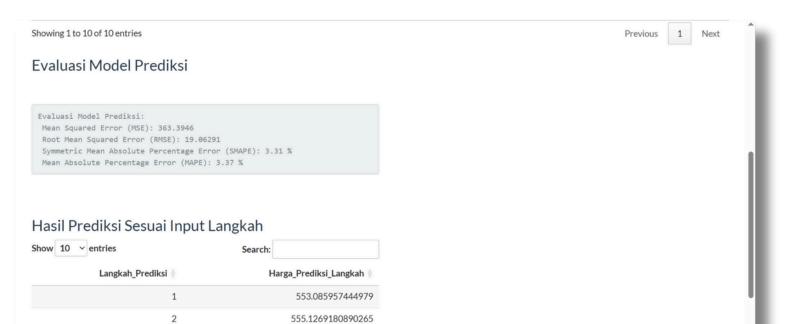
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4

5

6

Showing 1 to 10 of 10 entries

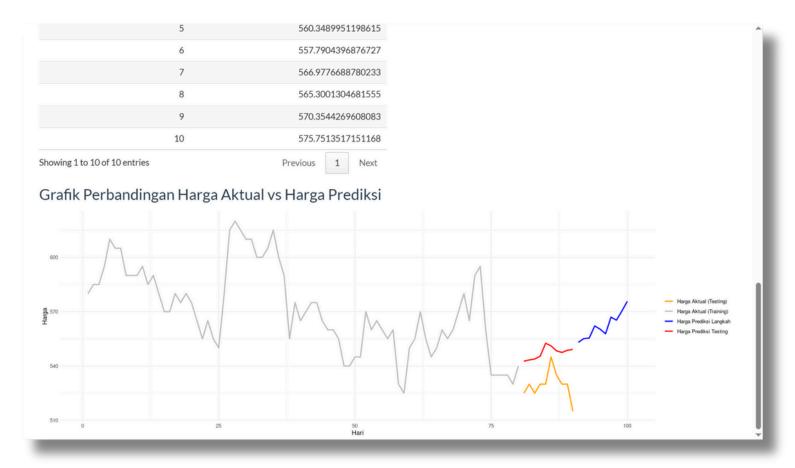


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562.09508636341



THANK YOU