Artificial Intelligence in Algorithmic Trading: An Extended Guide

Overview

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Math sample

Let S_t follow a geometric Brownian motion:

$$dS_t = \mu S_t\,dt + \sigma S_t\,dW_t, \qquad \Rightarrow\ S_T = S_0 \exp\Big((\mu - \tfrac{1}{2}\sigma^2)T + \sigma\sqrt{T}\,Z\Big).$$

The Black–Scholes call price:

$$C = S_0 e^{-qT}\Phi(d_1) - Ke^{-rT}\Phi(d_2), \quad d_{1,2} = \frac{\ln(S_0/K) + (r - q \pm \frac{1}{2}\sigma^2)T}{\sigma\sqrt{T}}.$$

Text sample

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