

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 4, November 2024

Cloud-Enabled Auto-Updating Data Visualization

Abhay Randhe¹, Chetana Sonawane², Rushikesh Thorat³, Bhagyesh Bharambe⁴, Narendra Joshi⁵

Students, Department of Cloud Technology and Information Technology¹²³⁴ Guide, Department of Cloud Technology and Information Security⁵ Sandip University, Nashik, India

Abstract: This Data visualization has gained significant importance in recent years, serving as a fundamental tool for fields like financial analysis, scientific research, business intelligence, and healthcare. Visualization technologies simplify data, making it accessible and actionable for users. Python, with its powerful libraries like Matplotlib and pyecharts, provides robust capabilities for visualizing various types of data, including complex financial datasets. This paper introduces data visualization technology in the context of tracking real-time stock prices, using Python to generate dynamic and interactive visualizations that are automatically updated. By leveraging Amazon Web Services (AWS) for data management, storage, and automated processing, this approach aims to enhance the understanding of live stock market data, supporting faster and more informed decision-making.

Keywords: Python, Data visualization, Matplotlib, pyecharts, stock market, real-time data, AWS



