Historical Metrics and Monitoring systems

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Abstract: *The study "Historical Metrics and Systems: An Analysis of Long-Term Performance Trends in Computing Environments" investigates the changing environment of computer systems over time using historical metrics. We investigate the value of long-term performance data in this study, looking at its implications for understanding system development, forecasting future behaviour, and improving overall system efficiency. Over the course of 90 days, we conducted a thorough investigation of numerous system indicators such as CPU consumption, RAM utilisation, network latency, and others. We show the significance of historical measurements in discovering patterns, trends, and possible areas for optimisation in computing systems using simulated data. The results are intended to provide useful insights into the area of system performance analysis and to provide the groundwork for future research in predictive computing and system optimisation.*

Keywords: Metrics from the Past, Long-Term Performance, Trends in Computing Systems, Predictive System Evolution Analysis, System Enhancement, Pattern Recognition in Performance Data Simulation, Environment for Computing

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[7] Matplotlib Documentation: Official documentation for the Matplotlib library, which is often used for data visualization

[8] NumPy Documentation: Official documentation for the NumPy library, a fundamental package for scientific computing with Python.

[9] Openpyxl Documentation: If you used Openpyxl for Excel manipulation in Python, refer to its official documentation.

[10] Power BI Community: Explore the Power BI community forums for discussions, tips, and additional resources related to Power BI.

[11] DataCamp or Coursera: These platforms offer various courses on data analysis, Python programming, and related subjects.

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