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(57) Abstract :
 A METHODOLOGY AND SYSTEM FOR IMPLEMENTING A SUSTAINABLE DATA SCIENCE FRAMEWORK IN GREEN COMPUTING FOR RESOURCE OPTIMIZATION ABSTRACT This disclosure introduces a novel system 100 and method addressing green computing and sustainable resource optimization. The system comprises modules: a data collection module (108) for real-time gathering of environmental parameters, a machine learning module (110) analyzing historical resource usage, and a real-time optimization module (112) dynamically adjusting computing resources. This orchestrated framework aims to enhance sustainability by optimizing energy efficiency and reducing environmental impact. The method involves steps with corresponding reference numerals: collecting environmental metrics (a), applying a data science framework for resource pattern analysis (b), and dynamically adjusting computing parameters (c) to enhance sustainability. Together, this system and method offer an integrated approach to green computing, fostering a balance between technological progress and ecological responsibility.

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