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(57) Abstract :
The invention discloses an automated system (100) for predicting computer hardware failures. The system comprises a data acquisition module (102) for real-time telemetry, a machine learning module (104) for pattern detection, a predictive analytics module (106) for estimating failure probability, and an alert generation module (108) for user notifications. A feedback module (110) ensures adaptive learning and improved accuracy. The system proactively identifies impending failures, reduces downtime, and optimizes maintenance, making it suitable for both individual computers and large-scale enterprise data centers.

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