

Predictive Maintenance in Software Systems: Machine Learning Approaches for Fault Detection and Prevention

Abstract

As modern software systems become increasingly complex, ensuring reliability and continuous operation is paramount. Predictive maintenance (PdM), a concept widely adopted in manufacturing and industrial systems, is now being adapted to software systems. By leveraging machine learning (ML), predictive maintenance enables early fault detection, proactive prevention strategies, and the automation of repair mechanisms. This article explores how predictive maintenance principles are applied in software systems, focusing on machine learning methodologies for fault detection and prevention. The paper provides an extensive review of literature, introduces frameworks for predictive software maintenance, examines real-world applications, highlights challenges, and outlines future research directions. A comparative table illustrates various ML approaches, their benefits, and limitations. The objective is to establish a comprehensive understanding of how predictive maintenance in software engineering can enhance fault resilience, minimize downtime, and optimize overall system performance.

Keywords

Predictive Maintenance, Software Reliability, Machine Learning, Fault Detection, Fault Prevention, Anomaly Detection, Software Engineering, DevOps

1. Introduction

Software reliability has become a critical requirement in modern technological infrastructures. Continuous delivery, cloud-native architectures, and agile development practices have transformed how software is built and deployed, yet these paradigms also introduce higher risks of faults and failures. Traditionally, software maintenance strategies relied on **reactive** (fixing after failure) or preventive (scheduled updates) approaches. However, these methods either lead to prolonged downtime or wasted resources. Predictive maintenance (PdM) seeks to solve this by predicting potential software faults before they occur, allowing proactive measures to be taken. Borrowed from mechanical systems, PdM uses data-driven insights to forecast failures and optimize maintenance schedules. With machine learning, predictive maintenance in software systems can leverage logs, telemetry, performance metrics, and user behavior data to identify anomalies that may lead to defects. This paper investigates how machine learning approaches can optimize predictive maintenance for software systems. It aims to answer the following research questions:

- How can predictive maintenance be effectively adapted from hardware systems to software systems?
- What ML techniques are most effective for software fault detection and prevention?
- What frameworks support the integration of PdM into agile and DevOps pipelines?

2. Literature Review

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