

DEVELOPMENT AND OPTIMIZATION OF MACHINE LEARNING ALGORITHMS FOR DETECTING ERRORS IN SOFTWARE CODE

Development and optimization of machine learning algorithms and detection of errors in software code is an important area of research because it can significantly improve software quality and speed up the process of development

Automatic error generation. Selecting machine call algorithms to automatically raise errors in program code allows you to quickly and efficiently identify potential problems, thereby reducing typing time and speeding up program loading.

Classification of pollution. Developing classification algorithms to recognize different types of contaminants in software code helps developers better solve problems before releasing a product.

Optimization of fast code algorithms. Implementing optimization techniques for machine learning algorithms can speed up the process of rapid code discovery, change the processing time of large code tasks, and respond to changes in real time.

Based on historical data. Using historical code change data to develop machine learning models can improve their accuracy and reliability until new problems are identified.

Automatic correction control. Developing algorithms that not only detect errors, but also introduce fixes or automatically make adjustments to the code can greatly facilitate the process of developing and maintaining software security.

Ensuring code acidity. Using machine algorithms to analyze code acidity and identify potential gaps helps manufacturers set internal standards and improve product acidity.

Software reliability. Using machine learning algorithms to detect defects improves software reliability and reduces the risk of critical failures and crashes in robotic programs.

Integration and continuous delivery process. Integrating machine learning algorithms into the integration and continuous delivery process helps to automate the detection and correction of defects in real time, changing the timing of payment at exit.

Machine learning in the software development process opens up new opportunities for automation and improvement of that, which in its turn leads to a creation of more reliable high quality software product.