Abstract

The common software problems appear in a wide variety of applications and environments. Some software related problems arises in software project development i.e. software related problems are known as software defect in which Software bug is a major problem arises in the coding implementation. There are no satisfied result found by project development team. The software bug problems mention in problem report and software engineer does not easily detect this software defect but by the help of data mining classification software engineers easily can classify software bug. This paper classified and detect software bug by J48, ID3 and Naïve Bayes data mining algorithms. Comparison of these algorithms to detect accuracy and time taken to build model is also presented in this paper.

References

Software Bug Detection using Data Mining

- Alsmadi and Magel, "Open source evolution Analysis", in proceeding of the 22nd IEEE International Conference on Software Maintenance (ICSM'06), Philadelphia, PA, USA, 2006.
- Chang and Chu, "software defect prediction Using international association rule mining", 2009.
Software Bug Detection using Data Mining

- Runeson and Nyholm, "Detection of duplicate Defect report uses neural network processing", in Proceeding of the 29th international conference on Software engineering 2007.

Index Terms

Computer Science

Software Engineering

Keywords

Classification: ID3 J48 and Naïve Bayes; Software BUG; WEKA.