Towards a Machine Learning Model for Predicting Failure of Agile Software Projects

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Abstract

Agile software development plays a very significant role in software projects. Agile software project is a refined approach to design and direct project processes. An agile project is finished in short sections called iterations. This paper introduces a survey of machine learning approaches for predicting failure of agile software projects. It reviews the uses of machine learning techniques such as fuzzy logic, multiple linear regression, neural network, logistic regression and etc., for predicting success and failure of agile software projects. This paper also proposes machine learning model for predicting failure of agile software projects. Many researches in this topic were reviewed, analyzed, summarized, and compared according to the used machine learning techniques in agile software projects.

References

1. V. Lalsing, S. Kishnah and S. Pudaruth “People Factors in Agile Software Development
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**Index Terms**

Computer Science Software Engineering

**Keywords**

Agile Software Projects, Machine Learning, Fuzzy Logic, Multiple Linear Regression.