Software reliability growth modelling (SRGM) is a statistical framework used to predict the risk of outages in operational software, based on the history of the previous failures. Estimating the parameters of the SRGM models in early operational phase, when only few data samples are available, may lead to inaccurate estimations when standard statistical inference techniques are used. The goal of this thesis or research internship is to explore the potential of improving the predictive accuracy of SRGM using different ANN architectures.

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