Software reliability is the ability of the software to perform its specified function under some specific condition. Reliability can be associated with both hardware and software. The hardware reliability can easily be evaluated since hardware get wear out but in case of software it be very difficult. In fact we can’t determine or predict the actual reliability of the software by using some specified parameter. The paper summarized the performance of different reliability models till been designed and also reflect the different relationship that exist between different parameters. The paper will also introduce the concept of neural network which is been considered as one of the efficient technique been used for estimation or prediction. Generally unsupervised learning technique is been used for generalizing new optimizing technique. So if we use neural network for calculating the software reliability then it may be possible for us to predict the reliability more effectively.

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