**Structure:**

The figure1 showed the system architecture of stroke risk prediction. Here the train data set are collected from the reports of some patients from different four hospitals in Sylhet, Bangladesh(organization, 2018). The train dataset was pre-processed in pre-processing stage. Then we tested the data set with some algorithms like SVM, ANN, NB, RF, J48, DT, LG etc. and we evaluated the performance accuracy of all those algorithms within 10-Fold Cross Validation and Percentage Split techniques. According the best accuracy, the best algorithm will be chosen for developing the tool. (organization, 2018) A questionnaire form will be filled up by the user as system input to predict the risk level and to give some tips and suggestions to the end user.(organization, 2018)

Report based train dataset

Database

Select the best algorithm

J48

RF

Use of algorithms for risk prediction

 J

SVM

ANN

NB

Preprocessing

Performance evaluation of algorithms

Risk level, tips and suggestions

Tool for the stroke risk prediction with the best algorithm

End user

Filling up a questionnaire form by user as system input

Figure 1: System Architecture for stroke risk prediction

# References

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