

Statistical Machine Learning Approaches to Liver Disease Prediction - Literature Survey

S.No	Authors	Year	Machine Learning Algorithms	Input(Dataset)	Accuracy	Result
01	Vasan Durai et al	2019	SVM,NB and J48	UCI repository	J48 algorithm has better feature selection with 95.04% accuracy	J48 algorithm is accuracy rate of 95.04%
02	Han ma et al	2018	Using 11 classification algorithms	First Affiliated Hospital,Zhejiang University China, College of medicine First Affiliated	Bayesian network accuracy 83%	Concluded Bayesian network has best performance than other algorithms.
03	Bendi Venkata Ramana and M.Surendra Prasad Babu	2012	Modified Rotation Forest	UCI liver dataset and Indian dataset	MLP algorithm with random subset gives better accuracy 74% than NN with CFS of accuracy 73.07%	MLP algorithm with UCI liver dataset has better accuracy than NN with Indian liver dataset.
04	Somaya Hashem et al	2016	PSO, GA, MReg and ADT	Egyptian national committee for control of viral hepatitis database	PSO, GA, MReg and ADT are 66.4%,69.6%,69.1% and 84.4% accuracy respectively.	ADT has more accuracy result than other algorithms.
05	Sivakumar D et al	2019	K-means and c4.5 algorithms	UCI Repository	C4.5 algorithm has 94.36% precision.	C4.5 has better accuracy than K-means algorithms.

06	Yugal Kuma and G.Sahoo	2013	DT,SVM,NB and ANN	North east area of Andra Pradesh(India) liver dataset	Decision tree(DT) has better accuracy of 98.46%	Rule based classification with DT algorithm has better accuracy.
07	D Sindhuja and R jemina Priyadharsini	2016	C4.5,Naive Bayes,SVM, BPNN Regression and DT data	AP has better dataset result than UCLA	Survey paper suggest C4.5 has better results than others	C4.5 has better accuracy result than other algorithms.
08	S.Dhamodharan	2014	Naive-Bayes, FT Tree	WEKA dataset	Naive Bayes is 75.54% accuracy and FT Tree is 72,6624% accuracy	Naive Bayes algorithm has better compare to other algorithms.
09	Mehtaj Banu H	2019	Supervised, unsupervised and reinforcement	UCI repository database	Only explaining not implementing practically	KNN and AVM has improved prediction performance accuracy.
10	Bendi Venkata Ramana and M.Surendra Prasad Babu	2012	Modified Rotation Forest	UCI liver dataset and Indian dataset	MLP algorithm with random subset gives better accuracy 74.78% than NN with CFS of accuracy 73.07%	MLP algorithm with UCI Liver dataset has better accuracy than NN with Indian liver dataset.