Improved classification techniques by combining KNN and Random Forest with Naive Bayesian classifier

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Abstract

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Abstract:
In Recent days, Information Technology walks into all spheres of life. The need for processing the information and analysing the processed information is one of the challenging task in any domain. Naive Bayes is one of the most elegant and simple classifier in data mining field. Irrespective of its feature independence assumptions, it surpasses all other classification techniques by yielding very good performance. In this paper, we attempted to increase the prediction accuracy of Naive Bayes model by integrating it with K nearest neighbours (KNN) and Random forest (RF). We believe that the simplicity of this approach and its great performance will be helpful for any classification.

Published in: 2015 IEEE International Conference on Engineering and Technology (ICETECH)

Date of Conference: 20-20

Date Added to IEEE *Xplore*

ISBN Information:

I. Introduction

Nowadays we find data in each and everything we see. The need for collecting all these data and storing those in databases will be helpful for future analysis and prediction. It is therefore necessary to extract all the hidden information from those databases before mining them. There are several different methodologies to approach this problem: classification, association rule, clustering, etc. In this paper, classification is focused in detail.

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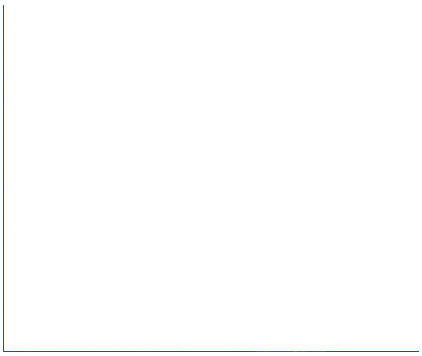

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