Universiti Teknologi MARA (Perak)

Classification of Halal Product by Using Decision Tree

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SUPERVISOR'S APPROVAL

CLASSIFICATION OF HALAL PRODUCT USING DECISION TREE
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This thesis was prepared under the direction of thesis supervisor, Puan Normah Binti Mohd Rawi. It was submitted to the Faculty of Computer and Mathematical Sciences and was accepted in partial fulfilment of the requirements for the degree of Bachelor of Computer Science (Hons).
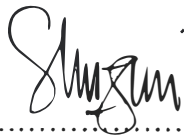
Approved by,

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Puan Normah Binti Mohd Rawi
Thesis Supervisor

JULY, 2013

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DECLARATION

I certify that this thesis and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

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ABSTRACT

In "Ice Cream," (2009), there were many varieties of ice cream's flavours such as chocolate, strawberries, vanilla and coffee. However, be aware since some of the ice cream's ingredients contains alcohol and unknown resources. Currently, with the growth of ice cream production, many manufacturers want to produce ice cream-based product. This research implementation is to classify the halal status of ice cream using decision tree. Several attributes are used in order to classify whether the ice cream is halal, haram or doubtful. This research also implements an experiment for three methods to find out which method to be used among J48 Decision Tree, Naïve-Bayes Tree and Logistic Model Tree. The best accuracy result will be implemented in this prototype. Most of Halal system detection that was available is created only for their product inside the country. Besides, many researchers use decision tree to classify data but only a few of them focus on Halal product and because of that the decision tree was implemented in this research.