**ABSTRACT**

Irham Akhbar 13115440

**IMPLEMENTATION OF K-NEAREST NEIGHBOUR ALGORITHM DATA MINING FOR PREDICTION OF GRADE PROMOTION IN AL-IHSAN ISLAMIC SENIOR HIGH SCHOOL BASED DESKTOP.**

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(xvii + 97 + appendices)

Outdoor Adventure Land Shop Jatiwaringin is a shop that sells outdoor activities such as mountain bags, mountain shoes, mountain sandals, jackets, tents and others. Along with sales transaction activities in stores that experience an increase every day can cause data buildup. Whereas in the many transaction data collections there are unique sales patterns that have the potential to produce important information and can be used to determine the company's sales strategy. The purpose of this paper is to create a website-based application that can analyze sales transaction data at Outdoor Adventure Land shop Jatiwaringin using apriori data mining algorithms, so that it can be known the habits of buyers in buying outdoor activities equipment that are most widely sold by type of goods. Website creation using HTML, PHP, and MySQL programming languages. The research method used is the System Development Life Cycle (SDLC) using the Waterfall methodology. Application design uses UML (Unified Modeling Language) and navigation structure. Testing is done using black box testing, the application has been running well. All functions, be it menus or buttons that have been running according to the design.

Bibliography (2008-2017).