

## **ABSTRACT**

### **EXPERT SYSTEM FOR TUBERCULOSIS (TB) DIAGNOSIS USING THE MOBILE-BASED NAIVE BAYES METHOD (A Case Study on the Padang Ratu Public Health Center)**

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The development of the world of technology provides a more outlook on life modern developments are propagating all aspects of life, no exception in the health sector. Expert systems are branches of artificial intelligence use specific knowledge or knowledge to solve problems at the level of human experts or experts, many expert systems are developed in various sciences, one of which is in the field of medicine to make a diagnosis disease. By applying Mobile technology to diagnose this disease, then it can be easily used by all groups and can also be accessed through mobile or laptop or PC. Naive Bayes can be used for various purposes, among others for document classification, spam detection or spam filtering, and classification problems the other. This research used the Naive Bayes method for spam filtering which can diagnose tuberculosis from patient data, disease symptoms tuberculosis in the input, then the system displayed the diagnostic results as well how to handle it. The software development method used was a prototype model that has five stages namely communication, quick plan, quick design modeling, construction of prototype and deployment, delivery, and feedback.

This research resulted in a mobile web-based TB disease diagnosis application. This application can be used quickly and precisely to diagnose diseases suffered. Besides it can convey information faster to wider community, especially patients in recognizing the symptoms of TB disease as well as providing suggestions for early treatment that must be given.

**Keywords: TB disease, Naive Bayes, Mobile Web**