

## ABSTRACT

# ***A MOBILE-BASED HOAX NEWS DETECTION SYSTEM***

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### ***Abstract***

*News can be easily accessed through social media or the internet. However, with the abundance of available information, it is difficult to distinguish between accurate news and fake news (hoax). The spread of hoaxes in the digital era has become one of the main challenges threatening the credibility of information in society. This research aims to develop a hoax detection application based on Flutter, integrated with a Flask API. The application is designed to help user very the validity of news by providing features such as news search by keyword, viewing detailed news, and detecting whether the news is a hoax or factual. The hoax detection model utilizes a Machine Learning method trained on a dataset of hoax and factual news using the Support Vector Machine (SVM) algorithm. The Flask API acts as a bridge between the detection model and the Flutter application enabling the processes of news searching, retrieving news details, and news detection. The test result show that the main functions of the application, namely searchNews(), fetchNewsDetail(), and detectHoax(), were successfully implemented. The application can display news search result based on keywords, provide comprehensive news details, and present detection result with satisfactory accuracy. This application has an interface equipped with scrolling features for reading long news and detection result pop-ups. Additionally, the Flask API demonstrates responsive performance in handling API requests within a range of 2-4 seconds, with responsiveness tests conducted using Postman*

**Keyword:** Hoax News, Flask API, Flutter Application, Machine Learning, Support Vector Machine (SVM) Algorithm, News Detection