

ABSTRACT

Research collaboration is crucial for enhancing the quality and productivity of research, thereby strengthening the role of innovation in the development of science and technology. However, many researchers in the academic scope of Telkom University Surabaya face difficulties in finding faculty members or research partners whose expertise aligns with their own, which poses a significant challenge in establishing effective research cooperation. This study aims to enhance multidisciplinary collaboration and facilitate the search for research partners within the academic environment of Telkom University Surabaya by developing an innovative recommendation system for researchers utilizing publication data from Google Scholar. The methods employed include the Latent Dirichlet Allocation (LDA) model for topic identification, while Naïve Bayes is used for classifying keyword data to predict relevant researchers. The outcome of this research is a recommendation system that can suggest faculty members based on their areas of expertise and research experience. This system is expected to assist researchers in finding collaboration partners and help students in selecting their thesis supervisors. Model evaluation demonstrates good performance in helping users recommend research supervisors, with an accuracy of 88%, precision of 86%, recall of 85%, and an F1-Score of 85%. This system aligns with the objectives of the Sustainable Development Goals (SDGs) in supporting modern innovation and research collaboration.

Keywords: *Recommendation System, Google Scholar, Telkom University Surabaya, Latent Dirichlet Allocation, & Naïve Bayes.*