

ABSTRACT

TOPIC MODELING OF INFORMATICS FACULTY FINAL PROJECT USING LATENT DIRICHLET ALLOCATION

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The final project is the final test that students must pass as a requirement for graduation from the undergraduate level. Students often use the campus repository as a reference for their final project. Repositories can also be used by students to find out what topics are mostly raised as student final assignments on campus. The problem is, there is no summary of trends in student research topics in the repository yet, so students need to read the final project reports one by one to find out topics that have been researched before. The aim of this research is to find out the research topic trends of FIF IT Telkom Purwokerto Institute of Technology Telkom Purwokerto (ITTP). The method used is Latent Dirichlet Allocation (LDA) as the topic modeling. The dataset used is an abstraction of the final project of Informatics Faculty students in the ITTP repository. Evaluation of the number of topics using the coherence value method. The results showed that the model produced three groups based on the coherence value of 0.446752. In conclusion, the results of topic modeling show that research topic trends for FIF ITTP students tend to be related to the themes of E-Commerce, disease, video and games, networking, travel, web, and surveys.

Keyword: Final Project; Latent Dirichlet Allocation; Repository; Tf-Idf; Topic Modeling.