

Abstract

Suitability job matching now is very important, especially for Career Development Center (CDC), which is become bridge for jobseekers from various knowledge disciplinaries and job vacancies that are available. By utilizing computerized technology, now it can be used as a solution in document matching between jobseekers and job vacancies that collected in the CDC. Similarity search can be used to match objects between documents based on similarity of jobseekers objects with job vacancies. Probabilistic Latent Semantic Analysis (PLSA) can be used as one of the methods to resolve this problem, PLSA is an probabilities approach for the two models such as words and documents. In this final project, PLSA method used to determine the similarity between documents, document jobseekers and document job vacancies. Through this method, it can generate in a better representation of the information into a text block, not like word weighting that are calculated in document and requires large dimensional vectors. Similarity method is also used to resolve this problem to find document similarity between jobseekers and job vacancies. Thus, by implementing PLSA, then applying similarity method on this experiment, objects between documents that have semantic relations can be found its similarity and impact of PLSA latent parameter itself on the similarity among documents. The result accuracy achieved in this study is precision at n at 75.5% with optimal latent variable 13.

Keywords : *Probabilistic Latent Semantic Analysis (PLSA), similarity, latent, semantic, Career Development Center (CDC)*