

ABSTRACT

DESIGNING DECISION SUPPORT SYSTEM IN MITRA DIGITAL KOMERSINDO LTD. FOR RECCOMENDING FABRICS USING kNN ALGORITHM

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Having more and more garment company and high revenue in the textile area conclude that textile and textile's product industries still become a primadonna in Indonesia. Many world class fashion brand opened up its branch store in Indonesia, makes local garment companies copying its strategy, one of them is fast fashion brand strategy. This strategy causing garment companies to think for its production of fashion variation and uniqueness, which need various type of fabrics. Align with their vision and much more garment companies motivate Komers to become a solution for buying a fabric raw materials by making an E-Commerce platform. To make the processes easier, Komers takes an initiative to build a decision support system to recommend fabrics for its customer with k-Nearest Neighbor algorithm and evaluated with confusion matrix. By using confusion matrix and quality measuring with matthew correlation coefficient, we can get that recommender system can be implemented as decision support system at Komers.

Keywords: Textile, Textile and Textile's Product, E-Commerce, Decision Support System, Garment Company, Small Medium Enterprises, Small Medium Industries