Abstract

Product planning is a basic stage, figuring variables affecting the conclusions needs to made to the center to see the coveted possibilities, we tended to an issue of production arrangements, named k-most demanding products (k-MDP) finding. Given a set of customers demanding a certain kind of products with different traits, a set of existing products of the sort, a set of candidate products that can be offered by a company, and a positive integer number k, we need to help the company to choose k products from the candidate products such that the normal number of the aggregate customers for the k products is boosted. We demonstrate the issue is NP hard when the quantity of characteristics for a product is 3 or more. One greedy algorithm is proposed to discover surmised answer for the issue. We additionally endeavor to discover the optimal arrangement of the issue by assessing the upper bound of the normal number of the aggregate customers for a set of k candidate products for lessening the hunt space of the optimal arrangement. A precise algorithm is then given to discover the optimal arrangement of the issue by utilizing this pruning method. The investigation results exhibit that both the productivity and memory prerequisite of the careful algorithm are similar to those for the voracious algorithm, and the insatiable algorithm is well versatile concerning k.
k-Most Demanding Products Discovery with Maximum Expected Customers


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Index Terms

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