# MOBILE PHONE RECOMMENDER USING MULTI CRITERIA DECISION MAKING ALGORITHM

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**ABSTRACT**

The best smartphones are hard to pick from the diverse brands available across the globe. It is a bewildering task to choose a smartphone that suits the user’s criteria. The goal of the project is to provide a list of smartphones that is best suited to the user criteria and make their work easier in choosing their perfect smartphone. The smartphones will be listed based on the filters provided by the users. The filters will have attributes like prize, camera, OS, brands, ROM and RAM, etc. Each attribute of filters will have a priority table based on which suggestions will sorted form the highest to the lowest priority. AHP-weightage will be used to prioritize the attributes. The outcome of the project is in the form of a user-friendly website that gets inputs to form the user in the form of filters and provides the best ranking list of mobiles in a timely response. The project uses various MCDM (Multicriteria Decision Making) algorithms such as Promethee 1 and 2, topsis for ranking the attributes based on AHP weightage and concludes which algorithms are best suited in terms of time and space efficiency.

**KEYWORDS**: Mobile Suggestions, Website, Filters, MCDM algorithms, Efficiency