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# Designing an Artistic Talent recommended System using Data Mining Algorithms

azam navidi\*,asadollah shah bahrami,

**Abstract** Different people have different talents such as art, sports, educational, etc. Different factors such as environment, genetics, family, and set of features and tools available effect on this talent contribute to growth and prosperity. Of course it is possible that there is multi-talented individual. Explore and identifying the interests, talents and abilities of individuals and detecting those, make person, family and finally society to rise and progress. Undoubtedly getting proportionate job activities and talent field make individual achieve more satisfaction and quality in their affairs. Detection, identifying and guiding them in the right direction should be done early age. Different works has been done in order to detect talent, like establishment types of football, volleyball, ... schools for children, that identify talented ones by evaluation body and physical tests. Also there are special schools for gifted children which them by scientific assessment tests. These ways are just samples of finding talent that are traditional and do not apply new technology and instruments. The aim of this thesis is, using a recommended system to predict artistic talent of people by data mining algorithm. in this suggested system, five main features include: person's social background, past performance, present technical knowledge, present technical skill and knowledge quality and skill are collected. each of these main features other specific characteristics are extracted. For instance, person's social background include sex, age and race that finally 14 characteristics extracted five main features. To identify people's talent collected data set and artificial neural network algorithm are used, and simulation results showed that by this recommended system discovering artistic talent is being done more accurate comparing with other methods. **Keywords:** discovering talent, discovering artistic talent, data mining and neural network.

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