



PROJECT REPORT

**DEVELOPMENT OF A SCHOLARSHIP AWARD
DECISION SUPPORT SYSTEM USING THE PYTHON-
BASED SIMPLE ADDITIVE WEIGHTING METHOD**

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ABSTRACT

The development of information technology in the digital era has developed rapidly, therefore human resources must be the main focus in this development. Therefore, many universities provide scholarship programs for his outstanding students, one of them is Soegijapranata University through the Sandjojo Foundation. However, sometimes scholarships do not meet the target. or considering that the calculations for providing scholarships to students are still done manually. This method is considered less effective and efficient because the data that must be analyzed can amount to hundreds or even thousands. Therefore, a system is needed to carry out data calculations effectively and efficiently. In addition to speeding up the results of considerations for granting scholarships to students. This system uses an algorithm program to avoid human error. This system was designed using a decision support algorithm model called simple additive weighting. Simple Additive Weighting is able to solve multiple attribute decision making problems by weighting all criteria and alternatives that can produce the right reference value. So that the final results of this program will provide a final score based on the data criteria that have been provided so that it is hoped that it can help users in considering decisions about awarding scholarships in an effective and precise calculation.

Keyword: Decision support systems, Data Mining, Simple additive weighting, SAW