

***IMPLEMENTATION OF THE AES ALGORITHM (ADVANCED
ENCRYPTION STANDARD) AS WEB-BASED SECURITY OF STUDENTS'
PERSONAL DATA***

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ABSTRACT

The security and confidentiality of data is important to maintain. One example of data that must be protected is personal data. Personal data attached to a person will be used as an identifier and the data will be stored in a database. For example, for a student, his identity will be stored in the school database. If this data is not secured it can cause problems, such as data theft which can result in losses to the relevant agencies. One way to prevent data leaks is to secure it with encryption. One method that can be used to encrypt data is the 128 bit AES algorithm. By using this method to encrypt files containing text data, it can help secure them from irresponsible parties.

Keywords: security, data, theft, encryption, AES algorithm