

# Museum Artifact Transaction System using Data Mining Techniques

R. Arun Prasath<sup>1</sup> and R. Priya<sup>2</sup>

PG Student, Department of computer Applications<sup>1</sup>

Professor, Department of computer Applications<sup>2</sup>

Vels Institute of Science, Technology and Advanced Studies, Pallavarm, Chennai, India

arunss2k1@gmail.com & priyaa.research@gmail.com

**Abstract:** *The Museum Artifact Purchase System (MAPS) is a comprehensive solution designed to revolutionize the acquisition process of antique artifacts, offering enhanced efficiency, security, and transparency. Through five distinct modules, namely Clients, Laboratory, Antique, Museum, and Admin, MAPS seamlessly orchestrates every stage of the artifact purchasing journey. In the Clients module, users undergo a meticulous registration process to access the system, enabling them to upload product details, monitor real-time status updates, and engage with the laboratory process for product age determination. Lab personnel, in turn, utilize the Laboratory module to process sample data, generate comprehensive reports, and seek approval from the administrator. Antique persons utilize the Antique module to register their shop details, participate in product bidding, and complete payment processes for successful bids. Meanwhile, the Museum module empowers museum personnel to browse artifact details, make purchases, and manage orders seamlessly. Central to the system's operation is the Admin module, where administrators oversee and manage user details, product listings, order processing, and payment verification. Administrators ensure the integrity of the system by approving bidders, verifying payments, and finalizing artifact sales. Throughout the entire process, MAPS employs advanced security measures, including AES encryption for data protection, ensuring the confidentiality and integrity of all transactions. By integrating smart contracts, MAPS automates complex transactions, streamlining the purchase process and eliminating the need for intermediaries. Overall, the Museum Artifact Purchase System (MAPS) stands as a promising solution poised to transform the antique art market, offering increased efficiency, security, transparency, and cost-effectiveness in artifact transactions.*

**Keywords:** Museum Artifact Purchase System