Submission Summary

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2023 IEEE World Conference on Applied Intelligence and Computing

Paper ID
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Paper Title
Standardization of ETL Process

Abstract
The ETL (Extract, Transform, Load) standardization project aims to develop an integrated solution that enables efficient management, processing, and analysis of large volumes of data specific to company's data requirements. The project includes researching and developing an ETL application along with standardization module for interconversions of various data formats, leverages ETL tools and technologies to extract data from various sources, transform it into a format suitable for analysis, and load it into a data warehouse. The project also includes the development of a user-friendly data visualization tool that provides intuitive and interactive access to the data warehouse's contents. The project's objective is to enable the company to make informed decisions based on accurate and up-to-date data, leading to improved business performance and maintain data coming from various sources. The Proof of Concept and research is aimed at arriving at an all-in-one application similar to other Business Intelligence tools available in the market, but is lightweight and specific to organization's technological and data requirements. The project's scope covers the entire ETL, data warehousing, and visualization process, including requirements gathering, design, development, testing, and deployment. Overall, the ETL, visualization, and data warehousing project addresses the critical need for effective data management, processing, and visualization in today's data-driven business landscape

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Authors
Prabhat Panwar (MIT WPU) < 1032190048@mitwpu.edu.in> ✓
Mehul Pansari (MIT WPU) < 1032190041@mitwpu.edu.in> ✓
Utkrist Agrawal (MIT WPU) < 1032190030@mitwpu.edu.in> ✓
Nikunj Padia (MIT WPU) < 1032190109@mitwpu.edu.in> ✓
Rashmi Phalnikar (MIT WPU) < rashmi.phalnikar@mitwpu.edu.in> ✓

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