

ABSTRACT

Telkom Regional 3 Jateng & DIY faces challenges in analyzing factors that influence project status, particularly based on project value estimation. The evaluation process, which is still manual and intuition-based, leads to inefficiencies and difficulties in identifying patterns from available project data. To address this issue, this study develops a machine learning-based prediction model using Python, utilizing libraries such as Pandas and Scikit-learn. The model aims to identify patterns in historical data to improve accuracy and objectivity in decision-making. The analysis results show that a data-driven approach can provide more systematic insights and support the optimization of project management. With the implementation of this technology, Telkom Regional 3 Jateng & DIY is expected to enhance business strategy effectiveness and accelerate digital transformation in project evaluation processes.

Keywords: *Data Analysis, Project Value Estimation, Machine Learning, Project Prediction, Python.*