

ABSTRACT

Web Application To Identify Insurance Product Eligibility With Lstm Based On Company Financial Reports

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This study aims to develop a web application to identify the feasibility of insurance products by utilizing the Contract Service Margin (CSM) value components, which include loss ratio, discount rate, expenses, and risk adjustment. The main focus in determining the feasibility of insurance products is the loss ratio and CSM values. The Long Short-Term Memory (LSTM) model was developed to overcome the challenges in conventional methods, such as large data volumes, time consumption, and technological resources. This model can learn patterns and relationships between CSM and loss ratio, so that it can determine the feasibility of insurance products accurately. The results of model training show good RMSE and MAE values, with the highest RMSE value of 0.24 and the lowest 0.04, and the highest MAE of 0.22 and the lowest 0.04. The LSTM method has proven effective in analyzing and predicting the feasibility of insurance products based on the CSM and loss ratio value components.

Keywords: LSTM, Product Feasibility, Web Application, Contract Service Margin (CSM)