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Prediction of Customer Purchase Intention using Social Media Data

Rashmi Kale¹, Kunal Bidwai², Mandar Maske³, Rahul Bansode⁴, Prasad Gurav⁵

Assistant Professor, Department of Computer Engineering¹
Students, Department of Computer Engineering^{2,3,4,5}
Smt. Kashibai Navale College of Engineering, Pune, Maharashtra, India

Abstract: Predicting customer behavior in the context of e-commerce is becoming increasingly important as people shift from visiting physical stores to shopping online. By facilitating a more personalized shopping process, it can boost consumer happiness and sales, resulting in higher conversion rates and a competitive edge. Models for forecasting consumer behaviors canbe constructed using and supplementing customer data. This research looks at how a prominent Germanapparel shop uses machine learning models to forecast purchases, which is a significant use case. Following that, by doing a descriptive data analysis and individually training the models on the distinct datasets, this study provides insight into the performance differences of the models on sequential and static customer data. Three different algorithms are used.

Keywords: Machine Learning, Customer Purchase Intention, SVM, KNN, Random Forest

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