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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel) : Sentiment Analysis of Indonesian Hotel Reviews: from Classical Machine Learning to Deep Learning
 Jumlah Penulis : Empat (R Kusumaningrum, IZ Nisa, RP Nawangsari, Adi Wibowo)
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Paper ini membahas tentang penggunaan deep learning dan algoritma machine learning klasik dalam analisis sentimen pada data review hotel di internet. Dengan tujuan untuk membandingkan kinerja tiga algoritma machine learning klasik (logistic regression, naive bayes, dan support vector machine) dengan Word2Vec model dan convolutional neural network (CNN) dalam klasifikasi review hotel menjadi kelas positif atau negatif

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Prof. Dr. Kuswanto Adi, S.Si., M.T.,
NIP : 197203171998021001

Unit Kerja: Fakultas Sains dan Matematika

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2. Ruang lingkup dan kedalaman pembahasan:

Pembahasan dalam makalah ini membahas metode Pattern Informatics yang dimodifikasi dan eksperimen yang dilakukan untuk menguji kinerjanya. Telah dibahas juga hasil prediksi dan peningkatan hasil yang dicapai oleh metode yang diusulkan

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Dalam studi tersebut, telah diperoleh sekumpulan informasi yang didukung oleh metodologi yang tepat dan didukung oleh referensi yang terbaru, yaitu kurang dari 5 tahun yang lalu, dengan total sebanyak 25.

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Paper ini dipublikasikan di sebuah jurnal berkualitas Q2 Artificial Intelligence dan sjr 2021 0,39 diterbitkan oleh Universitas Ahmad Dahlan. Paper tersebut memiliki semua unsur yang diperlukan dengan sangat baik.

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Drs. Bayu Surarso, M.Sc. Ph.D.
NIP. 196311051988031001.
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Sentiment analysis of Indonesian hotel reviews: from classical machine learning to deep learning

[Kusumaningrum, Retno](#) ; [Nisa, Iffa Zainan](#) ; [Nawangsari, Rizka Putri](#) ; [Wibowo, Adi](#) [Save all to author list](#)^a Department of Informatics, Universitas Diponegoro, Semarang, Indonesia2 ^{33th} percentile
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Currently, there are a large number of hotel reviews on the Internet that need to be evaluated to turn the data into practicable information. Deep learning has excellent capabilities for recognizing this type of data. With the advances in deep learning paradigms, many algorithms have been developed that can be used in sentiment analysis tasks. In this study, we aim to compare the performance of classical machine learning algorithms— logistic regression (LR), naïve Bayes (NB), and support vector machine (SVM) using the Word2Vec model in conjunction with deep learning algorithms such as a convolutional neural network (CNN) to classify hotel reviews on the Traveloka website into positive or negative classes. Both learning methods apply hyperparameter tuning to determine the parameters that produce the best model. Furthermore, the Word2Vec model parameters use the skip-gram model, hierarchical softmax evaluation, and the value of 100 vector dimensions. The highest average accuracy obtained was 98.08% by using the CNN with a dropout of 0.2, Tanh as convolution activation, softmax

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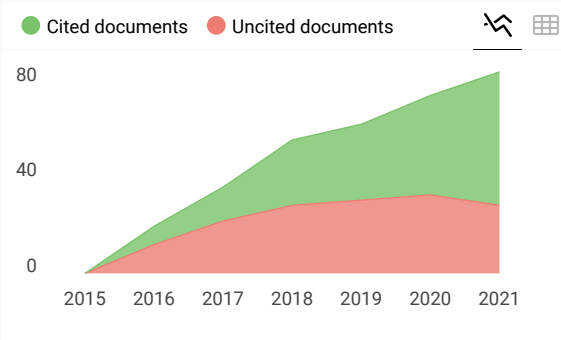
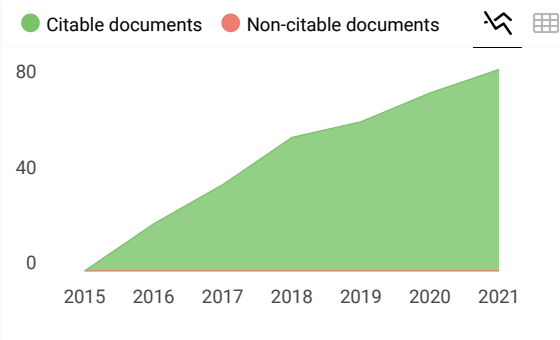
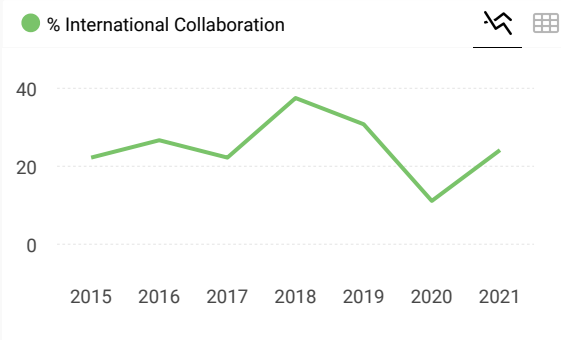
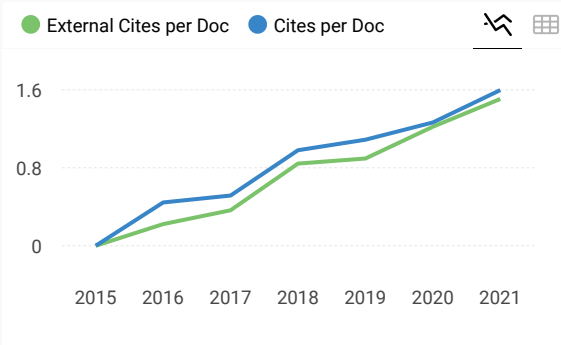
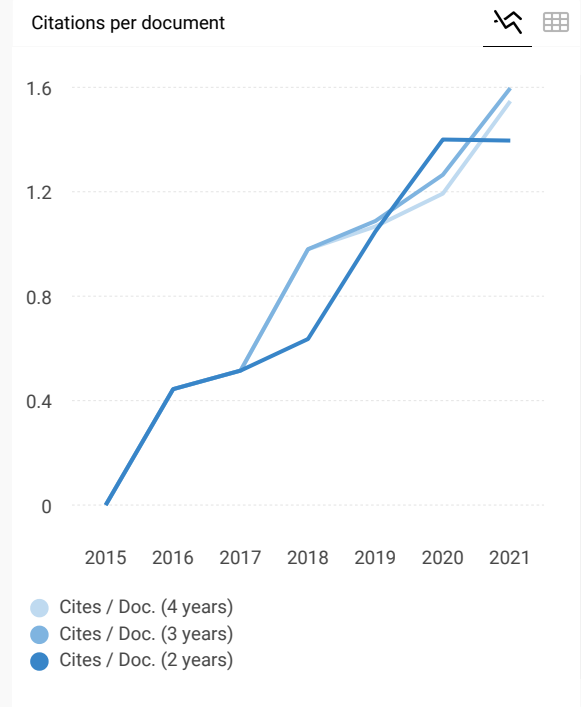
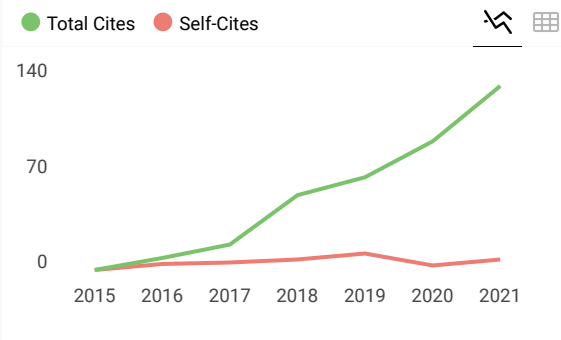
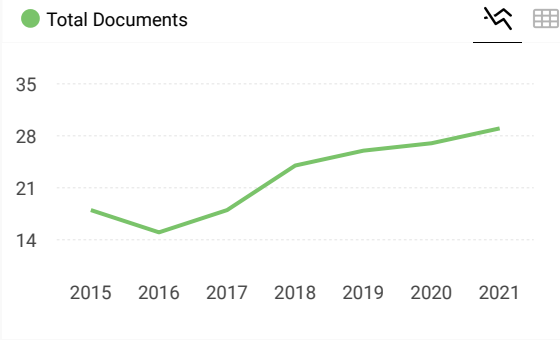
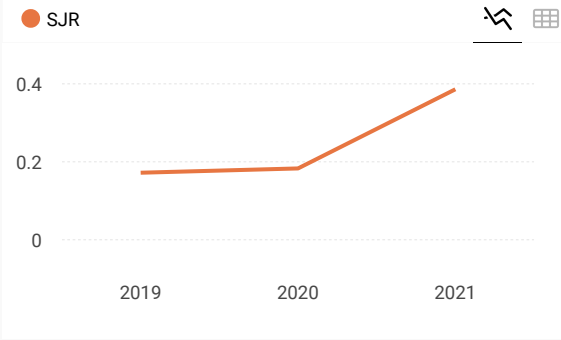
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