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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)

Status Pengusul : penulis ke 4 (empat)

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2. **Ruang lingkup dan kedalaman pembahasan:**
Ruang lingkup 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 negative. Pembahasan baik.

3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
Data-data hasil yang diperoleh dalam penelitian baik dengan didukung metodologi yang tepat dengan jumlah referensi kurang dari 5 tahun sejumlah 25.

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Semarang, 2 April 2023
Reviewer 1



Prof. Dr. Kusworo Adi, S.Si., M.T..
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- Ruang lingkup dan kedalaman pembahasan:**
Ruang lingkup artikel ini tentang pengolahan data review hotel menggunakan metode machine learning biasa ke deep learning. Pembahasan sangat mendalam terkait beberapa metode yang diperbandingkan
- 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.
- Kelengkapan unsur dan kualitas terbitan:**
Paper ini dipublikasikan di sebuah jurnal berkualitas Q3 Artificial Intelligence dan sjr 2021 0,39 diterbitkan oleh Universitas Ahmad Dahlan. Paper tersebut memiliki semua unsur yang diperlukan dengan sangat baik.

Semarang, 3 April 2023
Reviewer 2



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Sentiment analysis of Indonesian hotel reviews: from classical machine learning to deep learning

[Kusumaningrum, Retno](#) ; [Nisa, Iffa Zainan](#) ; [Nawang Sari, Rizka Putri](#) ; [Wibowo, Adi](#) [Save all to author list](#)^a Department of Informatics, Universitas Diponegoro, Semarang, Indonesia2 33th percentile
Citations in Scopus31
Views count [View all metrics](#) [View PDF](#) [Full text options](#) [Export](#) **Abstract**[Author keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

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

Cited by 2 documents

Comparison of Word2vec and Doc2vec Methods for Text Classification of Product Reviews

Hendrawan, I.R. , Utami, E. , Hartanto, A.D. (2022) *Proceeding - 6th International Conference on Information Technology, Information Systems and Electrical Engineering: Applying Data Sciences and Artificial Intelligence Technologies for Environmental Sustainability, ICITISEE 2022*

Aspect-based Sentiment Analysis in Tourism Industry for Tourism Recommender System

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Sentiment Analysis Using Word2vec and Long Short-Term Memory (LSTM) for Indonesian Hotel Reviews

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as output activation, and Adam as the optimizer. The findings from the study demonstrate that the integration of the Word2Vec model and the CNN model obtains significantly better accuracy than other classical machine learning methods. © 2021, Universitas Ahmad Dahlan. All rights reserved.

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Author keywords

Classical Machine Learning; Convolutional Neural Network; Hotel Reviews; Sentiment Analysis; Word2Vec

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- ☐ 1 Akhtar, N., Zubair, N., Kumar, A., Ahmad, T.
Aspect based Sentiment Oriented Summarization of Hotel Reviews ([Open Access](#))

(2017) *Procedia Computer Science*, 115, pp. 563-571. Cited 60 times.

<http://www.sciencedirect.com/science/journal/18770509>

doi: 10.1016/j.procs.2017.09.115

[View at Publisher](#)

- ☐ 2 Anand, D., Naorem, D.
Semi-supervised Aspect Based Sentiment Analysis for Movies Using Review Filtering ([Open Access](#))

(2016) *Procedia Computer Science*, 84, pp. 86-93. Cited 34 times.

<http://www.sciencedirect.com/science/journal/18770509>

doi: 10.1016/j.procs.2016.04.070

[View at Publisher](#)

- ☐ 3 Wahyudi, E., Kusumaningrum, R.
Aspect Based Sentiment Analysis in E-Commerce User Reviews Using Latent Dirichlet Allocation (LDA) and Sentiment Lexicon

(2019) *ICICOS 2019 - 3rd International Conference on Informatics and Computational Sciences: Accelerating Informatics and Computational Research for Smarter Society in The Era of Industry 4.0, Proceedings*, art. no. 8982522. Cited 5 times.

<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8966549>

ISBN: 978-172814610-2

doi: 10.1109/ICICoS48119.2019.8982522

[View at Publisher](#)

- ☐ 4 Rahul, Raj, V., Monika
Sentiment Analysis on Product Reviews

(2019) *Proceedings - 2019 International Conference on Computing, Communication, and Intelligent Systems, ICCIS 2019*, 2019-January, art. no. 8974527, pp. 5-9. Cited 8 times.

<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8966553>

ISBN: 978-172814826-7

doi: 10.1109/ICCIS48478.2019.8974527

[View at Publisher](#)

□ 5 Indriati, Kusyanti, A., Zakia, D.
Sentiment Analysis in the Mobile Application Review Document Using the Improved K-Nearest Neighbor Method

(2019) *Proceedings of 2019 4th International Conference on Sustainable Information Engineering and Technology, SIET 2019*, art. no. 8986037, pp. 332-337.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8966520>
ISBN: 978-172813878-7
doi: 10.1109/SIET48054.2019.8986037

View at Publisher

□ 6 Rangkuti, F.R.S., Fauzi, M.A., Sari, Y.A., Sari, E.D.L.
Sentiment Analysis on Movie Reviews Using Ensemble Features and Pearson Correlation Based Feature Selection

(2018) *3rd International Conference on Sustainable Information Engineering and Technology, SIET 2018 - Proceedings*, art. no. 8693211, pp. 88-91. Cited 11 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8685076>
ISBN: 978-153867407-9
doi: 10.1109/SIET.2018.8693211

View at Publisher

□ 7 Windasari, I.P., Eridani, D.
Sentiment analysis on travel destination in Indonesia
(Open Access)

(2017) *Proceedings - 2017 4th International Conference on Information Technology, Computer, and Electrical Engineering, ICITACEE 2017*, 2018-January, pp. 276-279. Cited 8 times.
ISBN: 978-153863946-7
doi: 10.1109/ICITACEE.2017.8257717

View at Publisher

□ 8 Laksono, R.A., Sungkono, K.R., Sarno, R., Wahyuni, C.S.
Sentiment analysis of restaurant customer reviews on tripadvisor using naïve bayes

(2019) *Proceedings of 2019 International Conference on Information and Communication Technology and Systems, ICTS 2019*, art. no. 8850982, pp. 49-54. Cited 42 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8843554>
ISBN: 978-172812133-8
doi: 10.1109/ICTS.2019.8850982

View at Publisher

□ 9 Moraes, R., Valiati, J.F., Gavião Neto, W.P.
Document-level sentiment classification: An empirical comparison between SVM and ANN

(2013) *Expert Systems with Applications*, 40 (2), pp. 621-633. Cited 501 times.
doi: 10.1016/j.eswa.2012.07.059

View at Publisher

□ 10 Tripathy, A., Anand, A., Rath, S.K.
Document-level sentiment classification using hybrid machine learning approach

(2017) *Knowledge and Information Systems*, 53 (3), pp. 805-831. Cited 68 times.
<https://www.springer.com/journal/10115>
doi: 10.1007/s10115-017-1055-z

View at Publisher

- 11 Muhammad, P.F., Kusumaningrum, R., Wibowo, A.
Sentiment Analysis Using Word2vec and Long Short-Term Memory (LSTM) for Indonesian Hotel Reviews ([Open Access](#))

(2021) *Procedia Computer Science*, 179, pp. 728-735. Cited 47 times.
<http://www.sciencedirect.com/science/journal/18770509>
doi: 10.1016/j.procs.2021.01.061

[View at Publisher](#)
-
- 12 Naradhipa, A.R., Purwarianti, A.
Sentiment classification for Indonesian message in social media

(2012) *Proceedings - International Conference on Cloud Computing and Social Networking 2012: Cloud Computing and Social Networking for Smart and Productive Society, ICCCSN 2012*, art. no. 6215730. Cited 36 times.
ISBN: 978-146731816-7
doi: 10.1109/ICCCSN.2012.6215730

[View at Publisher](#)
-
- 13 Kurniawan, S., Kusumaningrum, R., Timu, M.E.
Hierarchical Sentence Sentiment Analysis of Hotel Reviews Using the Naïve Bayes Classifier

(2018) *2018 2nd International Conference on Informatics and Computational Sciences, ICICoS 2018*, art. no. 8621748, pp. 104-108. Cited 8 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8605495>
ISBN: 978-153867440-6
doi: 10.1109/ICICOS.2018.8621748

[View at Publisher](#)
-
- 14 Farra, N., Challita, E., Assi, R.A., Hajj, H.
Sentence-level and document-level sentiment mining for arabic texts

(2010) *Proceedings - IEEE International Conference on Data Mining, ICDM*, art. no. 5693419, pp. 1114-1119. Cited 125 times.
ISBN: 978-076954257-7
doi: 10.1109/ICDMW.2010.95

[View at Publisher](#)
-
- 15 Manik, L.P., Febri Mustika, H., Akbar, Z., Kartika, Y.A., Ridwan Saleh, D., Setiawan, F.A., Atman Satya, I.
Aspect-Based Sentiment Analysis on Candidate Character Traits in Indonesian Presidential Election

(2020) *Proceeding - 2020 International Conference on Radar, Antenna, Microwave, Electronics and Telecommunications, ICRAMET 2020*, art. no. 9298595, pp. 224-228. Cited 4 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9298549>
ISBN: 978-172818922-2
doi: 10.1109/ICRAMET51080.2020.9298595

[View at Publisher](#)
-
- 16 Gojali, S., Khodra, M.L.
Aspect based sentiment analysis for review rating prediction

(2016) *4th IGNITE Conference and 2016 International Conference on Advanced Informatics: Concepts, Theory and Application, ICAICTA 2016*, art. no. 7803110. Cited 26 times.
ISBN: 978-150901636-5
doi: 10.1109/ICAICTA.2016.7803110

[View at Publisher](#)
-

-
- 17 Azhar, A.N., Khodra, M.L., Sutiono, A.P.
Multi-label Aspect Categorization with Convolutional Neural Networks and Extreme Gradient Boosting

(2019) *Proceedings of the International Conference on Electrical Engineering and Informatics*, 2019-July, art. no. 8988898, pp. 35-40. Cited 6 times.
ISBN: 978-172812418-6
doi: 10.1109/ICEEI47359.2019.8988898

View at Publisher
-
- 18 Af'idah, D.I., Kusumaningrum, R., Surarso, B.
Long short term memory convolutional neural network for Indonesian sentiment analysis towards touristic destination reviews

(2020) *Proceedings - 2020 International Seminar on Application for Technology of Information and Communication: IT Challenges for Sustainability, Scalability, and Security in the Age of Digital Disruption, iSemantic 2020*, art. no. 9234210, pp. 630-637. Cited 3 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9234188>
ISBN: 978-172819068-6
doi: 10.1109/iSemantic50169.2020.9234210

View at Publisher
-
- 19 Satriaji, W., Kusumaningrum, R.
Effect of Synthetic Minority Oversampling Technique (SMOTE), Feature Representation, and Classification Algorithm on Imbalanced Sentiment Analysis

(2018) *2018 2nd International Conference on Informatics and Computational Sciences, ICICoS 2018*, art. no. 8621648, pp. 99-103. Cited 9 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8605495>
ISBN: 978-153867440-6
doi: 10.1109/ICICOS.2018.8621648

View at Publisher
-
- 20 Pratama, B.Y., Sarno, R.
Personality classification based on Twitter text using Naive Bayes, KNN and SVM

(2015) *Proceedings of 2015 International Conference on Data and Software Engineering, ICODSE 2015*, art. no. 7436992, pp. 170-174. Cited 177 times.
ISBN: 978-146738428-5
doi: 10.1109/ICODSE.2015.7436992

View at Publisher
-
- 21 Lunando, E., Purwarianti, A.
Indonesian social media sentiment analysis with sarcasm detection (Open Access)

(2013) *2013 International Conference on Advanced Computer Science and Information Systems, ICACSIS 2013*, art. no. 6761575, pp. 195-198. Cited 82 times.
doi: 10.1109/ICACSIS.2013.6761575

View at Publisher
-

-
- 22 Cahyadi, A., Khodra, M.L.
Aspect-Based Sentiment Analysis Using Convolutional Neural Network and Bidirectional Long Short-Term Memory
(2018) *ICAICTA 2018 - 5th International Conference on Advanced Informatics: Concepts Theory and Applications*, art. no. 8541300, pp. 124-129. Cited 22 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8509818>
ISBN: 978-153864804-9
doi: 10.1109/ICAICTA.2018.8541300
[View at Publisher](#)
-
- 23 Ilmania, A., Abdurrahman, Cahyawijaya, S., Purwarianti, A.
Aspect Detection and Sentiment Classification Using Deep Neural Network for Indonesian Aspect-Based Sentiment Analysis
(2019) *Proceedings of the 2018 International Conference on Asian Language Processing, IALP 2018*, art. no. 8629181, pp. 62-67. Cited 26 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8616748>
ISBN: 978-172811176-6
doi: 10.1109/IALP.2018.8629181
[View at Publisher](#)
-
- 24 Ligthart, A., Catal, C., Tekinerdogan, B.
Systematic reviews in sentiment analysis: a tertiary study
([Open Access](#))
(2021) *Artificial Intelligence Review*, 54 (7), pp. 4997-5053. Cited 61 times.
www.springer.com/journal/10462
doi: 10.1007/s10462-021-09973-3
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-
- 25 Nawangsari, R.P., Kusumaningrum, R., Wibowo, A.
Word2vec for Indonesian sentiment analysis towards hotel reviews: An evaluation study ([Open Access](#))
(2019) *Procedia Computer Science*, 157, pp. 360-366. Cited 29 times.
<http://www.sciencedirect.com/science/journal/18770509>
doi: 10.1016/j.procs.2019.08.178
[View at Publisher](#)
-
- 26 Mhatre, M., Phondekar, D., Kadam, P., Chawathe, A., Ghag, K.
Dimensionality reduction for sentiment analysis using pre-processing techniques
(2018) *Proceedings of the International Conference on Computing Methodologies and Communication, ICCMC 2017*, 2018-January, pp. 16-21. Cited 16 times.
ISBN: 978-150904890-8
doi: 10.1109/ICCMC.2017.8282676
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-
- 27 Putra, Y.A., Khodra, M.L.
Deep learning and distributional semantic model for Indonesian tweet categorization
(2016) *Proceedings of 2016 International Conference on Data and Software Engineering, ICoDSE 2016*, art. no. 7936108. Cited 9 times.
ISBN: 978-150905671-2
doi: 10.1109/ICODSE.2016.7936108
[View at Publisher](#)
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- 28 Twinandilla, S., Adhy, S., Surarso, B., Kusumaningrum, R.
Multi-Document Summarization Using K-Means and Latent Dirichlet Allocation (LDA) - Significance Sentences ([Open Access](#))

(2018) *Procedia Computer Science*, 135, pp. 663-670. Cited 7 times.
<http://www.sciencedirect.com/science/journal/18770509>
doi: 10.1016/j.procs.2018.08.220

[View at Publisher](#)

- 29 Al Omari, M., Al-Hajj, M., Hammami, N., Sabra, A.
Sentiment classifier: Logistic regression for Arabic services' reviews in Lebanon

(2019) *2019 International Conference on Computer and Information Sciences, ICCIS 2019*, art. no. 8716394. Cited 19 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8710212>
ISBN: 978-153868125-1
doi: 10.1109/ICCISci.2019.8716394

[View at Publisher](#)

- 30 Hasanli, H., Rustamov, S.
Sentiment Analysis of Azerbaijani tweets Using Logistic Regression, Naive Bayes and SVM

(2019) *13th IEEE International Conference on Application of Information and Communication Technologies, AICT 2019 - Proceedings*, art. no. 8981793. Cited 9 times.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8966545>
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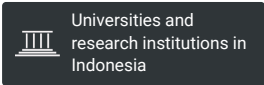
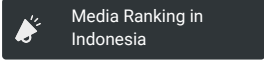
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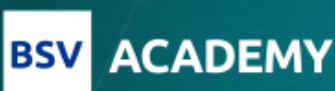
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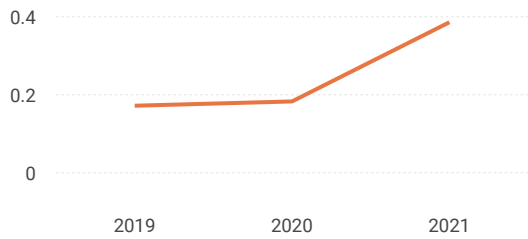
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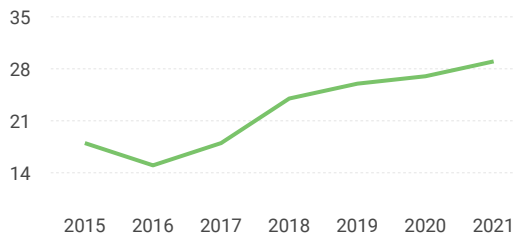
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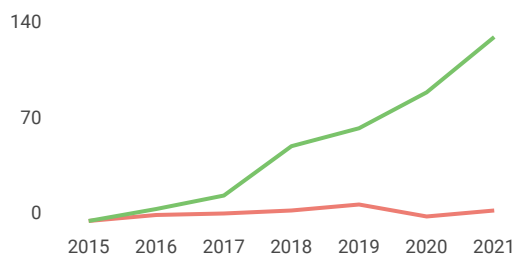
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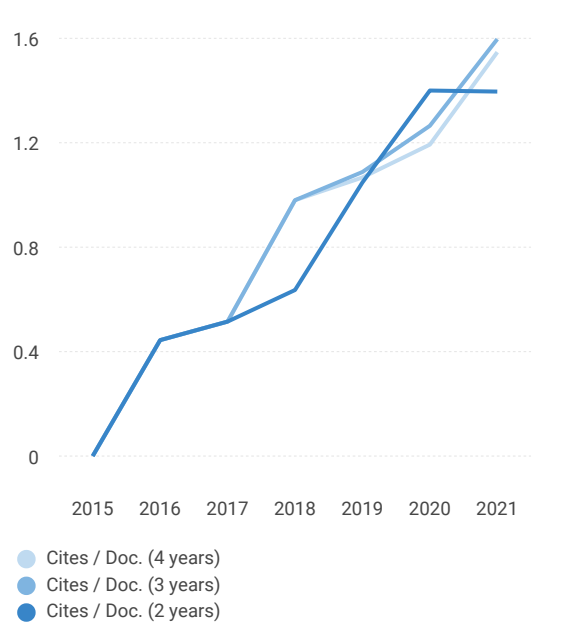
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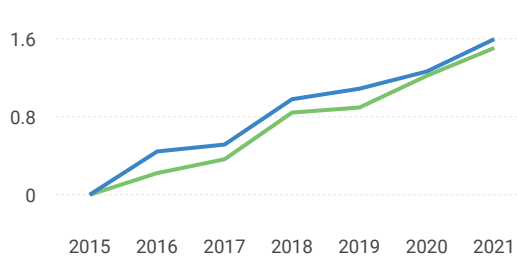
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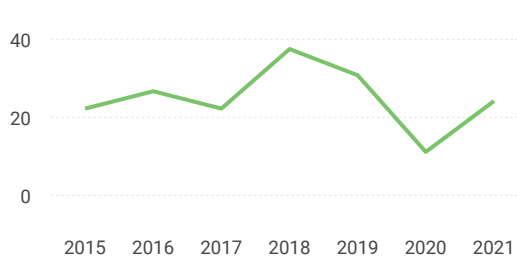
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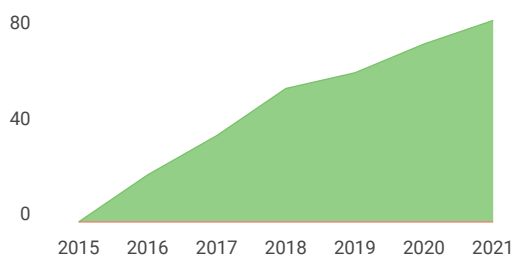
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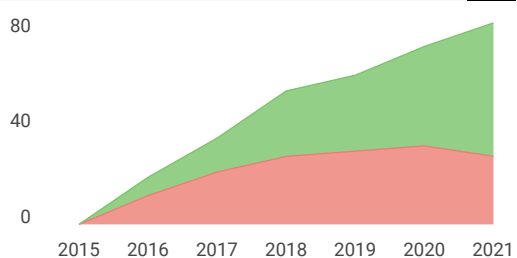
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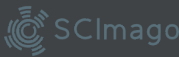
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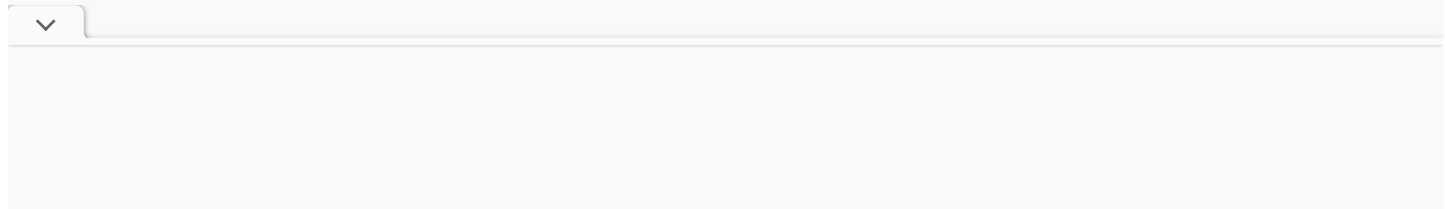
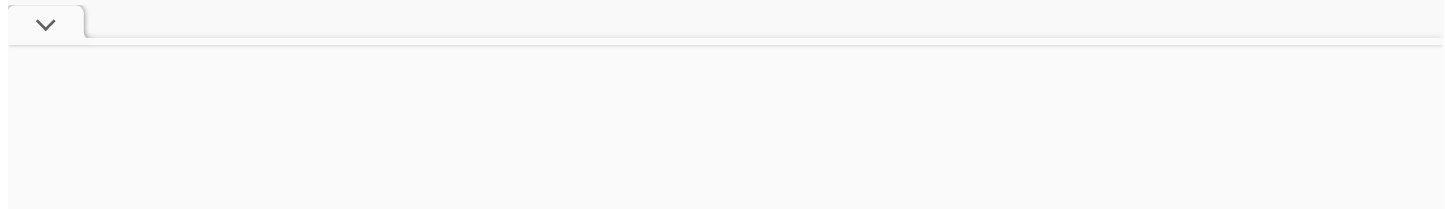
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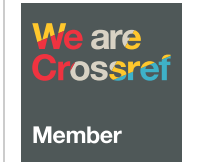
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