

BAB VI

PENUTUP

6.1. Kesimpulan

Penelitian Pembangunan Sistem Otomasi Pengumpul Data dan Pelabelan Sentimen pada Media Sosial X dan Youtube merupakan hal yang penting untuk dilakukan. Setelah melalui analisis, perancangan implementasi hingga pengujian maka dapat disimpulkan bahwa peneliti telah berhasil membangun Sistem Otomasi Pengumpul Data dan Pelabelan Sentimen pada Media Sosial. Sistem yang dibangun juga telah mengimplementasikan model IndoBERT untuk pelabelan sentimen data yang telah dikumpulkan.

Sistem ini diharapkan dapat membantu peneliti dan analis untuk melakukan analisis sentimen pada media sosial secara lebih efisien dan akurat. Selain itu juga dengan memberikan sumber data terbuka dapat membantu perkembangan dan kemajuan teknologi menjadi lebih positif dan bermanfaat bagi banyak orang. Sistem yang telah dibangun juga dinilai layak untuk digunakan secara keseluruhan dan mudah digunakan.

6.2. Saran

Saran yang diberikan terkait dengan hasil pembangunan dan pengujian Sistem Otomasi Pengumpul Data dan Pelabelan Sentimen pada Media Sosial X dan Youtube, adalah perlunya untuk mesin dapat melakukan pengumpulan data dari beberapa media sosial atau sumber data lain, menambah hasil analisa berupa pengolahan data ke beberapa bentuk lainnya, menambah fitur lanjutan untuk menganalisa sentimen setelah di label, menambah *limit* jumlah data yang dapat dikumpulkan serta mempercepat proses pengumpulan data.

DAFTAR PUSTAKA

- [1] A. M. Kaplan and M. Haenlein, “Users of the world, unite! The challenges and opportunities of Social Media,” *Bus Horiz*, vol. 53, no. 1, pp. 59–68, 2010, doi: 10.1016/j.bushor.2009.09.003.
- [2] K. K. Kapoor, K. Tamilmani, N. P. Rana, P. Patil, Y. K. Dwivedi, and S. Nerur, “Advances in Social Media Research: Past, Present and Future,” *Information Systems Frontiers*, vol. 20, no. 3, pp. 531–558, 2018, doi: 10.1007/s10796-017-9810-y.
- [3] M. M. Skoric, J. Liu, and K. Jaidka, “Electoral and public opinion forecasts with social media data: A meta-analysis,” *Information (Switzerland)*, vol. 11, no. 4, pp. 1–16, 2020, doi: 10.3390/info11040187.
- [4] M. W. Pertiwi, “Analisis Sentimen Opini Publik Mengenai Sarana Dan Transportasi Mudik Tahun 2019 Pada Twitter Menggunakan Algoritma Naïve Bayes, Neural Network, Knn Dan Svm,” *Inti Nusa Mandiri*, vol. 14, no. 1, pp. 27–32, 2019, [Online]. Available: <http://www.nusamandiri.ac.id>
- [5] M. M. Skoric, J. Liu, and K. Jaidka, “Electoral and public opinion forecasts with social media data: A meta-analysis,” *Information (Switzerland)*, vol. 11, no. 4, pp. 1–16, 2020, doi: 10.3390/info11040187.
- [6] D. Karamouzas, I. Mademlis, and I. Pitas, “Public opinion monitoring through collective semantic analysis of tweets,” *Soc Netw Anal Min*, vol. 12, no. 1, pp. 1–21, 2022, doi: 10.1007/s13278-022-00922-8.
- [7] A. A. Gede, Y. Paramartha, K. Yota, E. Aryanto, and M. Informatika, “Integration of Region-based Open Data Using Semantic Web Gede Rasben Dantes.” [Online]. Available: <https://data.kpu.go.id/>
- [8] P. Verschuren and R. Hartog, “Evaluation in design-oriented research,” *Qual Quant*, vol. 39, no. 6, pp. 733–762, 2005, doi: 10.1007/s11135-005-3150-6.
- [9] R. Darman, “Analisis Sentimen Respons Twitter terhadap Persyaratan Badan Penyelenggara Jaminan Sosial (BPJS) di Kantor Pertanahan,” *Widya Bhumi*, vol. 3, no. 2, pp. 113–136, 2023, doi: 10.31292/wb.v3i2.61.
- [10] A. Mutia Mantika, A. Triayudi, and R. T. Aldisa, “Sentiment Analysis on Twitter Using Naïve Bayes and Logistic Regression for the 2024 Presidential Election,” vol. 2, no. 1, pp. 44–55, 2024, [Online]. Available: <https://doi.org/10.58905/sana.v2i1.267>

- [11] R. Yunita and M. Kamayani, "Perbandingan Algoritma SVM Dan Naïve Bayes Pada Analisis Sentimen Penghapusan Kewajiban Skripsi," *Indonesian Journal of Computer Science*, vol. 12, no. 5, pp. 2879–2890, 2023, doi: 10.33022/ijcs.v12i5.3415.
- [12] Y. F. W. H. Faradian, A. Rubhasy, "Analisis Sentimen Terhadap Penutupan Tiktok Shop Menggunakan Algoritma Naïve Bayes Classifier Pada Media Sosial X," *Scientica*, vol. 2, pp. 126–138, 2024.
- [13] M. D. Al Fahreza, A. Luthfiarta, M. Rafid, M. Indrawan, and A. Nugraha, "Analisis Sentimen: Pengaruh Jam Kerja Terhadap Kesehatan Mental Generasi Z," *Journal of Applied Computer Science and Technology*, vol. 5, no. 1, pp. 16–25, 2024, doi: 10.52158/jacost.v5i1.715.
- [14] A. Baravkar, R. Jaiswal, J. Chhoriya, and Prof. B. Tekwani, "Sentimental Analysis of YouTube Videos," *International Journal of Scientific Research in Computer Science, Engineering and Information Technology*, vol. 3307, pp. 554–562, 2021, doi: 10.32628/cseit2172112.
- [15] A. Himawan, A. Priadana, and A. W. Murdiyanto, "Implementation of Web Scraping to Build a Web- Based Instagram Account Data Downloader Application," vol. 9, no. 2, pp. 59–65, 2020, doi: 10.14421/ijid.2020.09201.
- [16] M. Djufri, "Penerapan Teknik Web Scraping Untuk Penggalan Potensi Pajak (Studi Kasus Pada Online Market Place Tokopedia, Shopee Dan Bukalapak)," *Jurnal BPPK : Badan Pendidikan dan Pelatihan Keuangan*, vol. 13, no. 2, pp. 65–75, 2020, doi: 10.48108/jurnalbppk.v13i2.636.
- [17] J. Hendryli and V. C. Mawardi, "Development of web crawler to build Indonesian text corpus," *IOP Conf Ser Mater Sci Eng*, vol. 1007, no. 1, pp. 0–7, 2020, doi: 10.1088/1757-899X/1007/1/012043.
- [18] A. William and Y. Sari, "CLICK-ID: A novel dataset for Indonesian clickbait headlines," *Data Brief*, vol. 32, p. 106231, 2020, doi: 10.1016/j.dib.2020.106231.
- [19] A. Mansur, Z. Allamsyah, and P. Amalia, "The Performance of Indonesia's President: A Sentiment Analysis in Social Media," *IOP Conf Ser Mater Sci Eng*, vol. 1077, no. 1, p. 012004, 2021, doi: 10.1088/1757-899x/1077/1/012004.
- [20] Dan Laughey, *Key Themes in Media Theory*. New York: Open University Press, 2007.

- [21] A. M. Kaplan and M. Haenlein, "Users of the world, unite! The challenges and opportunities of Social Media," *Bus Horiz*, vol. 53, no. 1, pp. 59–68, 2010, doi: 10.1016/j.bushor.2009.09.003.
- [22] A. D. Maynard, "How to Succeed as an Academic on YouTube," *Front Commun (Lausanne)*, vol. 5, no. February, pp. 1–9, 2020, doi: 10.3389/fcomm.2020.572181.
- [23] M. Viny Christanti, Walla, and T. Sutrisno, "Comments scraping application for review YouTube content," *IOP Conf Ser Mater Sci Eng*, vol. 852, no. 1, 2020, doi: 10.1088/1757-899X/852/1/012167.
- [24] "Twitter: Elon Musk rebrands platform to 'X' – DW – 07/24/2023." Accessed: Mar. 29, 2024. [Online]. Available: <https://www.dw.com/en/twitter-elon-musk-rebrands-platform-to-x/a-66328568>
- [25] "Political Polarization on Twitter: Social media May Contribute to Online Extremism | Souman Hong, Ph.D." Accessed: Jun. 07, 2024. [Online]. Available: https://scholar.harvard.edu/souman_hong/political-polarization-twitter-social-media-may-contribute-online-extremism
- [26] J. H. Lee, N. Santero, A. Bhattacharya, E. May, and E. S. Spiro, "Community-based strategies for combating misinformation: Learning from a popular culture fandom," *Harvard Kennedy School Misinformation Review*, vol. 3, no. 5, pp. 1–12, 2022, doi: 10.37016/mr-2020-105.
- [27] "Blog - Helmi Satria." Accessed: Oct. 13, 2023. [Online]. Available: <https://helimisatria.com/blog>
- [28] "helimisatria/tweet-harvest: Scrape tweets from Twitter search results based on keywords and date range using Playwright. Save scraped tweets in a CSV file for easy analysis." Accessed: Oct. 13, 2023. [Online]. Available: <https://github.com/helimisatria/tweet-harvest>
- [29] Y. Sahria, "Implementasi Teknik Web Scraping pada Jurnal SINTA Untuk Analisis Topik Penelitian Kesehatan Indonesia," *URECOL (Unversity Research Colloqium)*, pp. 297–306, 2020, [Online]. Available: <http://repository.urecol.org/index.php/proceeding/article/view/1079>
- [30] P. Arsi, B. A. Kusuma, and A. Nurhakim, "Analisis Sentimen Pindah Ibu Kota Berbasis Naive Bayes Classifier," *Jurnal Informatika Upgris*, vol. 7, no. 1, pp. 1–6, 2021, doi: 10.26877/jiu.v7i1.7636.

- [31] R. M. R. W. P. K. Atmaja and W. Yustanti, "Analisis Sentimen Customer Review Aplikasi Ruang Guru dengan Metode BERT (Bidirectional Encoder Representations from Transformers)," *JEISBI (Journal of Emerging Information Systems and Business Intelligence)*, vol. 02, no. 3, pp. 55–62, 2021.
- [32] M. Raymond, *Management Information System*. 2010.
- [33] N. Afrina Prastiwi, S. Kholil, and S. Titin Sumanti, "Pengelolaan Website Dinas Komunikasi Dan Informatika Kabupaten Asahan Sebagai Akses Informasi Publik," *SIBATIK JOURNAL: Jurnal Ilmiah Bidang Sosial, Ekonomi, Budaya, Teknologi, dan Pendidikan*, vol. 1, no. 11, pp. 2605–2614, 2022, doi: 10.54443/sibatik.v1i11.399.
- [34] Yunita Trimarsiah and Muhajir Arafat, "Analisis Dan Perancangan Website Sebagai Sarana Informasi Pada Lembaga Bahasa Kewirausahaan Dan Komputer Akmi Baturaja," *Jurnal Ilmiah MATRIK*, vol. 19 No 1, pp. 1–10, 2017.
- [35] F. Wijaya, A. Jacobus, and A. Sambul, "Implementation Of Web Services On University Library Information Systems," *Jurnal Teknik Informatika*, vol. 16, no. 4, pp. 421–428, 2021, [Online]. Available: <https://ejournal.unsrat.ac.id/index.php/informatika/article/view/34226%0Ahttps://ejournal.unsrat.ac.id/index.php/informatika/article/download/34226/33732>
- [36] A. N. Rahimah, D. S. Rusdianto, and M. T. Ananta, "Pengembangan Sistem Pengelolaan Ruang Baca Berbasis Web Dengan Menggunakan Django Framework (Studi Kasus : Ruang Baca Fakultas Ilmu Komputer Universitas Brawijaya)," *Pengembangan Teknologi Informasi dan Ilmu Komputer*, vol. 3, no. 5, pp. 4439–4446, 2019, [Online]. Available: <https://j-ptiik.ub.ac.id/index.php/j-ptiik/article/view/5227/2469>