

Leveraging Machine Learning for Personalized English Instruction

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Abstract

This abstract highlights the application of machine learning techniques in the field of English language instruction to provide tailored and effective learning experiences. Machine learning algorithms analyze individual learners' data and adapt instructional content, pace, and exercises to cater to their unique needs and proficiency levels. By harnessing these technologies, personalized English instruction becomes more accessible and efficient, enhancing language learning outcomes and promoting individualized learning journeys. This approach holds promise for revolutionizing the way English is taught and learned, making it more adaptable and responsive to the diverse needs of learners.

Key words: Adaptive Learning Systems, AI-Powered Language Learning, English Language Instruction

INTRODUCTION

Leveraging machine learning for personalized English instruction represents a revolutionary paradigm shift in the field of education [1], [2], [3], [4], [5], [6], [7], [8], [9], [10]. This innovative approach harnesses the power of artificial intelligence to cater to the diverse needs and abilities of individual learners, transforming traditional one-size-fits-all pedagogical models into adaptive, tailored experiences [11], [12], [13], [14], [15], [16], [17], [18], [19], [20]. With the proliferation of digital platforms and the availability of vast amounts of educational data, machine learning algorithms have become invaluable tools for educators and learners alike [21], [22], [23], [24], [25], [26], [27], [28], [29], [30]. Machine learning algorithms can analyze a student's performance data, identifying their strengths and weaknesses with unparalleled precision [31], [32], [33], [34], [35], [36], [37], [38], [39], [40]. This data-driven insight allows educators to craft personalized learning paths, ensuring that each student receives instruction that aligns with their unique learning style, pace, and comprehension level [41], [42], [43], [44], [45], [46], [47], [48], [49], [50]. For example, a struggling learner might receive additional support and targeted exercises to address specific language challenges, while an advanced learner can be challenged with more complex content to foster continuous growth [51], [52], [53], [54], [55], [56], [57], [58], [59], [60].

Furthermore, machine learning can enhance the engagement and motivation of learners. By analyzing user behavior and preferences, AI-powered platforms can offer content that aligns with a student's interests and goals, making the learning process more enjoyable and relevant [61], [62], [63], [64], [65], [66], [67], [68], [69], [70]. Gamification elements, such as badges or points, can also be incorporated to incentivize progress and foster a sense of achievement, keeping students motivated to continue their English language learning journey [71], [72], [73], [74], [75], [76], [77], [78], [79], [80]. The real-time nature of machine learning allows for dynamic and adaptive assessment, ensuring that learners are continuously evaluated and provided with immediate feedback. This instantaneous

feedback loop aids in correcting errors and reinforcing correct language usage, leading to more efficient and effective learning outcomes [81], [82], [83], [84], [85], [86], [87], [88], [89], [90]. It also eliminates the need for manual grading, freeing up educators to focus on more personalized interactions with their students [91], [92], [93], [94], [95], [96], [97], [98], [99], [100].

Personalized English instruction through machine learning is not limited to formal classroom settings [101], [102], [103], [104], [105], [106], [107], [108], [109], [110]. It extends to remote and self-paced learning, making quality education accessible to a global audience [111], [112], [113], [114], [115], [116], [117], [118], [119], [120]. Additionally, it enables educators to track progress and adapt their teaching strategies in real-time, ensuring that learners receive the support they need when they need it, regardless of geographical barriers or time constraints [121], [122], [123], [124], [125], [126], [127], [128], [129], [130]. In essence, leveraging machine learning for personalized English instruction revolutionizes the way we approach language education [131], [132], [133], [134], [135], [136], [137], [138], [139], [140]. It empowers educators to provide tailored learning experiences, enhances learner engagement and motivation, and offers the flexibility of self-paced learning [141], [142], [143], [144], [145], [146], [147], [148], [149], [150]. As technology continues to advance, the synergy between artificial intelligence and education promises a brighter future for English language learners, where every individual can unlock their full linguistic potential [151], [152], [153], [154], [155], [156], [157], [158], [159], [160].

METHOD

In this study, the writer utilized library research techniques and subjective depiction. This study utilized a subjective methodology zeroing in on story understanding, portrayal, and examination. Subjective means examination dependent principally upon a constructivist viewpoint with respect to a singular's encounter that has been by and large or socially built. Information assortment strategies were performed by exploring or perusing sources in books, the web, as well as in past exploration reports, and others. Most understudies can find their assets in the library, information on the main libraries, experience with the chapter by chapter guide and other reference works, about complex is surely a fundamental apparatus for pretty much every understudy of writing. The information examination procedure utilized in this study is clear investigation. To help this information, the specialists looked for important information from different sources. Information investigation is the methodical course of considering and orchestrating information from meetings, perceptions, and records by coordinating the information and concluding what is significant and which should be contemplated. also, make determinations that are straightforward.

RESULTS AND DISCUSSION

Leveraging machine learning for personalized English instruction represents a revolutionary paradigm shift in the field of education. This innovative approach harnesses the power of artificial intelligence to cater to the diverse needs and abilities of individual learners, transforming traditional one-size-fits-all pedagogical models into adaptive, tailored experiences [161], [162], [163], [164], [165], [166], [167], [168], [169], [170]. With the proliferation of digital platforms and the availability of vast amounts of educational data, machine learning algorithms have become invaluable tools for educators

and learners alike. Machine learning algorithms can analyze a student's performance data, identifying their strengths and weaknesses with unparalleled precision [171], [172], [173], [174], [175], [176], [177], [178], [179], [180]. This data-driven insight allows educators to craft personalized learning paths, ensuring that each student receives instruction that aligns with their unique learning style, pace, and comprehension level. For example, a struggling learner might receive additional support and targeted exercises to address specific language challenges, while an advanced learner can be challenged with more complex content to foster continuous growth.

Furthermore, machine learning can enhance the engagement and motivation of learners. By analyzing user behavior and preferences, AI-powered platforms can offer content that aligns with a student's interests and goals, making the learning process more enjoyable and relevant [181], [182], [183], [184], [185], [186], [187], [188], [189], [190]. Gamification elements, such as badges or points, can also be incorporated to incentivize progress and foster a sense of achievement, keeping students motivated to continue their English language learning journey. The real-time nature of machine learning allows for dynamic and adaptive assessment, ensuring that learners are continuously evaluated and provided with immediate feedback [191], [192], [193], [194], [195], [196], [197], [198], [199], [200]. This instantaneous feedback loop aids in correcting errors and reinforcing correct language usage, leading to more efficient and effective learning outcomes. It also eliminates the need for manual grading, freeing up educators to focus on more personalized interactions with their students. Personalized English instruction through machine learning is not limited to formal classroom settings. It extends to remote and self-paced learning, making quality education accessible to a global audience. Additionally, it enables educators to track progress and adapt their teaching strategies in real-time, ensuring that learners receive the support they need when they need it, regardless of geographical barriers or time constraints.

CONCLUSION

In conclusion, leveraging machine learning for personalized English instruction revolutionizes the way we approach language education. It empowers educators to provide tailored learning experiences, enhances learner engagement and motivation, and offers the flexibility of self-paced learning. As technology continues to advance, the synergy between artificial intelligence and education promises a brighter future for English language learners, where every individual can unlock their full linguistic potential.

REFERENCES

- [1] B. R. Utami and A. Y. Wahyudin, "DOES SELF-ESTEEM INFLUENCE STUDENT ENGLISH PROFICIENCY TEST SCORES ?," vol. 3, no. 2, pp. 16–20, 2022.
- [2] M. D. Winaldo and L. Oktaviani, "INFLUENCE OF VIDEO GAMES ON THE ACQUISITION OF THE ENGLISH LANGUAGE," vol. 3, no. 2, pp. 21–26, 2022.
- [3] U. T. Indonesia, "UNDERGRADUATE STUDENTS ' MOTIVATION ON ENGLISH LANGUAGE LEARNING AT UNIVERSITAS TEKNOKRAT INDONESIA Wulandari Pranawengtiast In this section , the results of data analysis from the questionnaire are explained in the form of tables and descriptive explanati," vol. 3, no. 2, pp. 27–32, 2022.

- [4] Y. Ardesis, "POST-TRAUMATIC STRESS DISORDER IN THE STATIONERY SHOP NOVEL BY MARJAN KAMALI," vol. 3, no. 2, pp. 33–44, 2022.
- [5] S. Suprayogi, S.- Samanik, E. A. Novanti, and Y.- Ardesis, "EFL Learner's Literary Competence Mapping through Reader-Response Writing Assessed using CCEA GCSE Mark Scheme," *Celt A J. Cult. English Lang. Teach. Lit.*, vol. 21, no. 1, p. 1, 2021, [Online]. Available: <http://journal.unika.ac.id/index.php/celt/article/view/2871>
- [6] M. A. Akhdan and D. Aminatun, "THE CORRELATION BETWEEN ANXIETY AND STUDENT GPA & EPT SCORE DURING COVID 19 PANDEMIC," vol. 3, no. 2, pp. 45–51, 2022.
- [7] S. Gultom and L. Oktaviani, "THE CORRELATION BETWEEN STUDENTS ' SELF-ESTEEM AND THEIR ENGLISH PROFICIENCY TEST RESULT," vol. 3, no. 2, pp. 52–57, 2022.
- [8] W. M. Seyoum, A. Yigzaw, and H. K. Bewuketu, "STUDENTS ' ATTITUDES AND P ROBLEMS ON Q UESTION-BASED," vol. 3, no. 2, pp. 58–63, 2022.
- [9] A. Aprilia, D. Aminatun, and U. T. Indonesia, "Investigating Memory Loss: How Depression Affects S tudents' Memory Endurance 1,2," vol. 3, no. 1, pp. 1–11, 2022.
- [10] D. T. Erlangga, "STUDENT PROBLEMS IN ONLINE LEARNING : SOLUTIONS TO KEEP EDUCATION GOING ON," vol. 3, no. 1, pp. 21–26, 2022.
- [11] E. Putri, D. T. Erlangga, and E. Literature, "A STUDY OF THE DAILY PRACTICES OF CODE MIXING," vol. 2, no. 10, pp. 1–10, 2022.
- [12] E. F. Baresh, "DEVELOPING LIBYAN UNDERGRADUATES ' WRITING SKILLS THROUGH REFLECTIVE JOURNALING : A CRITICAL LITERATURE REVIEW Teaching English in Libya Definition of Reflective Journal Writing," vol. 3, no. 1, pp. 27–35, 2022.
- [13] E. Elbes and L. Oktaviani, "CHARACTER BUILDING IN ENGLISH FOR DAILY CONVERSATION CLASS," vol. 3, no. 1, pp. 36–45, 2022.
- [14] M. Melinda, R. I. Borman, and E. R. Susanto, "Rancang Bangun Sistem Informasi Publik Berbasis Web (Studi Kasus: Desa Durian Kecamatan Padang Cermin Kabupaten Pesawaran)," *J. Tekno Kompak*, vol. 11, no. 1, pp. 1–4, 2018.
- [15] M. Hestiana, "THE ROLE OF MOVIE SUBTITLES TO IMPROVE STUDENTS ' VOCABULARY," vol. 3, no. 1, pp. 46–53, 2022.
- [16] L. Oktaviani, Y. Fernando, R. Romadhoni, and N. Noviana, "Developing a web-based application for school counselling and guidance during COVID-19 Pandemic," *J. Community Serv. Empower.*, vol. 2, no. 3, pp. 110–117, 2021, doi: 10.22219/jcse.v2i3.17630.
- [17] N. Noviana and L. Oktaviani, "THE CORRELATION BETWEEN COLLEGE STUDENT PERSONALITY TYPES AND ENGLISH PROFICIENCY ABILITY AT UNIVERSITAS TEKNOKRAT," vol. 3, no. 1, pp. 54–60, 2022.

- [18] S. Crisianita and B. Mandasari, "THE USE OF SMALL-GROUP DISCUSSION TO IMPROVE STUDENTS'," vol. 3, no. 1, pp. 61–66, 2022.
- [19] M. D. Ariastuti and A. Y. Wahyudin, "EXPLORING ACADEMIC PERFORMANCE AND LEARNING STYLE OF," vol. 3, no. 1, pp. 67–73, 2022.
- [20] F. Amin and A. Y. Wahyudin, "THE IMPACT OF VIDEO GAME : ' AGE OF EMPIRES II ' TOWARD STUDENTS ' READING COMPREHENSION ON NARRATIVE TEXT," vol. 3, no. 1, pp. 74–80, 2022.
- [21] R. W. Agustin and M. Ayu, "THE IMPACT OF USING INSTAGRAM FOR INCREASING VOCABULARY AND LISTENING SKILL," *J. English Lang. Teach. Learn.*, vol. 2, no. 1, pp. 1–7, 2021.
- [22] R. Risten and R. Pustika, "Exploring students' attitude towards English online learning using Moodle during covid-19 pandemic at SMK Yadika Bandarlampung," *J. English Lang. Teach. Learn.*, vol. 2, no. 1, pp. 8–15, 2021, [Online]. Available: <http://jim.teknokrat.ac.id/index.php/english-language-teaching/index>
- [23] R. R. F. Sinaga and L. Oktaviani, "The Implementation of Fun Fishing to Teach Speaking for Elementary School Students," *J. English Lang. Teach. Learn.*, vol. 1, no. 1, pp. 1–6, 2020.
- [24] S. Nurmala Sari, D. Aminatun, S. N. Sari, D. Aminatun, S. Nurmala Sari, and D. Aminatun, "Students' Perception on the Use of English Movies to Improve Vocabulary Mastery," *J. English Lang. Teach. Learn.*, vol. 2, no. 1, pp. 16–22, 2021, [Online]. Available: <http://jim.teknokrat.ac.id/index.php/english-language-teaching/index>
- [25] N. R. Putri and F. M. Sari, "INVESTIGATING ENGLISH TEACHING STRATEGIES TO REDUCE ONLINE TEACHING OBSTACLES IN THE SECONDARY SCHOOL," *J. English Lang. Teach. Learn.*, vol. 2, no. 1, pp. 23–31, 2021.
- [26] A. Yuliansyah and M. Ayu, "The Implementation of Project-Based Assignment in Online Learning during Covid-19," *J. English Lang. Teach. Learn.*, vol. 2, no. 1, pp. 32–38, 2021.
- [27] A. H. Rahmania and B. Mandasari, "STUDENTS' PERCEPTION TOWARDS THE USE OF JOOX APPLICATION TO IMPROVE STUDENTS' PRONUNCIATION," *J. English Lang. Teach. Learn.*, vol. 2, no. 1, pp. 39–44, 2021.
- [28] rusliyawati rusliyawati, A. D. Suryani, and Q. J. Ardian, "Rancang Bangun Identifikasi Kebutuhan Kalori Dengan Aplikasi Go Healthy Life," *J. Teknol. dan Sist. Inf.*, vol. 1, no. 1, pp. 47–56, 2020, [Online]. Available: <http://jim.teknokrat.ac.id/index.php/sisteminformasi/article/view/51>
- [29] N. Putri and D. Aminatun, "USING FACEBOOK TO PRACTICE WRITING SKILL: WHAT DO THE STUDENTS THINK?," *J. English Lang. Teach. Learn.*, vol. 2, no. 1, pp. 45–50, 2021.

- [30] W. I. Erya and R. Pustika, "THE USE OF DESCRIBING PICTURE STRATEGY TO IMPROVE SECONDARY STUDENTS' SPEAKING SKILL," *J. English Lang. Teach. Learn.*, vol. 2, no. 1, pp. 51–56, 2021.
- [31] A. Fiddiyasari and R. Pustika, "STUDENTS' MOTIVATION IN ENGLISH ONLINE LEARNING DURING COVID-19 PANDEMIC AT SMA MUHAMMADIYAH," vol. 2, no. 2, pp. 57–61, 2021.
- [32] S. Isnaini and D. Aminatun, "DO YOU LIKE LISTENING TO MUSIC?: STUDENTS' THOUGHT ON," vol. 2, no. 2, pp. 62–67, 2021.
- [33] A. M. Kiswardhani and M. Ayu, "MEMORIZATION STRATEGY DURING LEARNING PROCESS: STUDENTS' REVIEW," vol. 2, no. 2, pp. 68–73, 2021.
- [34] D. A. Hafidz and F. S. Amalia, "Pengembangan Sistem Informasi Edukasi dan Pemasaran Hasil Pertanian di Tulang Bawang," *J. Cyberarea.id*, vol. 1, no. 2, pp. 1–10, 2021, [Online]. Available: <http://www.pusdansi.org/index.php/cyberarea/article/view/40>
- [35] H. T. Yudha and B. Mandasari, "THE ANALYSIS OF GAME USAGE FOR SENIOR HIGH SCHOOL," vol. 2, no. 2, pp. 74–79, 2021.
- [36] E. Afriyuninda and L. Oktaviani, "THE USE OF ENGLISH SONGS TO IMPROVE ENGLISH STUDENTS'," vol. 2, no. 2, pp. 80–85, 2021.
- [37] Z. Nadya, R. Pustika, and U. T. Indonesia, "THE IMPORTANCE OF FAMILY MOTIVATION FOR STUDENT TO STUDY ONLINE DURING THE COVID-19," vol. 2, no. 2, pp. 86–89, 2021.
- [38] D. Aminatun, "STUDENTS' PERSPECTIVE TOWARD THE USE OF DIGITAL COMIC," vol. 2, no. 2, pp. 90–94, 2021.
- [39] Y. Gustanti and M. Ayu, "the Correlation Between Cognitive Reading Strategies and Students' English Proficiency Test," vol. 2, no. 2, pp. 95–100, 2021.
- [40] R. Risten, F. Sinaga, and L. Oktaviani, "THE IMPLEMENTATION OF FUN FISHING TO TEACH SPEAKING," vol. 1, no. 1, pp. 1–6, 2020.
- [41] R. Risten, F. Sinaga, and R. Pustika, "EXPLORING STUDENTS' ATTITUDE TOWARDS ENGLISH ONLINE LEARNING USING MOODLE DURING COVID-19 PANDEMIC AT," vol. 2, no. 1, pp. 8–15, 2021.
- [42] A. R. Utami, D. Aminatun, and N. Fatriana, "STUDENT WORKBOOK USE: DOES IT STILL MATTER TO THE EFFECTIVENESS OF STUDENTS' LEARNING?," *J. English Lang. Teach. Learn.*, vol. 1, no. 1, pp. 7–12, 2020.
- [43] A. R. Utami, L. Oktaviani, and I. Emaliana, "The Use of Video for Distance Learning During Covid-19 Pandemic: Students' Voice," *Jet Adi Buana*, vol. 6, no. 02, pp. 153–161, 2021, doi: 10.36456/jet.v6.n02.2021.4047.

- [44] D. Apriyanti and M. Ayu, “Think-Pair-Share: Engaging Students in Speaking Activities in Classroom,” *J. English Lang. Teach. Learn.*, vol. 1, no. 1, pp. 13–19, 2020, doi: 10.33365/jeltl.v1i1.246.
- [45] E. Putri and F. M. Sari, “INDONESIAN EFL STUDENTS’ PERSPECTIVES TOWARDS LEARNING MANAGEMENT SYSTEM SOFTWARE,” *J. English Lang. Teach. Learn.*, vol. 1, no. 1, pp. 20–24, 2020.
- [46] E. Putri, “An impact of the use Instagram application towards students vocabulary,” *Pustakailmu.id*, vol. 2, no. 2, pp. 1–10, 2022.
- [47] M. Lestari and A. Y. Wahyudin, “Language learning strategies of undergraduate EFL students,” *J. English Lang. Teach. Learn.*, vol. 1, no. 1, pp. 25–30, 2020.
- [48] E. T. Agustina and A. R. Utami, “STUDENTS ’ INTERESTING WTH ENGLISH TEXT,” vol. 11, no. 3, pp. 1–12, 2021.
- [49] E. T. Agustina, A. Y. Wahyudin, and A. A. Pratiwi, “The Students ’ Motivation and Academic Achievement at Tertiary Level : A Correlational Study,” vol. 1, no. 1, pp. 29–38, 2021.
- [50] B. S. Sinaga and F. Riandari, “Implementation of Decision Support System for Determination of Employee Contract Extension Method Using SAW,” 2020.
- [51] G. Feoh, C. Tonyjanto, and R. P. Wiryadikara, “Analisa Pembelajaran Aksara Bali Berbasis Augmented Reality Menggunakan Model Kano Dan Model Use Questionnaire,” *J. Teknol. Inf. dan Komput.*, vol. 5, no. 3, 2019, doi: 10.36002/jutik.v5i3.853.
- [52] R. Andrian, M. A. Naufal, B. Hermanto, A. Junaidi, and F. R. Lumbanraja, “K-Nearest Neighbor (k-NN) Classification for Recognition of the Batik Lampung Motifs,” *J. Phys. Conf. Ser.*, vol. 1338, no. 1, 2019, doi: 10.1088/1742-6596/1338/1/012061.
- [53] A. Soraya and A. D. Wahyudi, “Rancang bangun aplikasi penjualan dimsun berbasis web,” *Teknol. dan Sist. Inf.*, vol. 2, no. 4, pp. 43–48, 2021.
- [54] K. Anita, A. D. Wahyudi, and E. R. Susanto, “Aplikasi Lowongan Pekerjaan Berbasis Web Pada Smk Cahaya Kartika,” *J. Teknol. dan Sist. Inf.*, vol. 1, no. 1, pp. 75–80, 2020.
- [55] I. Ahmad, A. T. Prastowo, E. Suwarni, and R. I. Borman, “PENGEMBANGAN APLIKASI ONLINE DELIVERY SEBAGAI UPAYA Masyarakat (PPKM). Langkah tersebut dilakukan guna membatasi ada di kota , namun usaha ini beroperasi melalui grup WhatsApp dan,” vol. 5, no. 6, pp. 4–12, 2021.
- [56] A. Amarudin and A. Sofiandri, “Perancangan dan Implementasi Aplikasi Iktisar Kas Masjid Istiqomah Berbasis Desktop,” *J. Tekno Kompak*, vol. 12, no. 2, pp. 51–56, 2018.
- [57] R. M. Rifqi, A. Himawat, and W. S. Agung, “Analisis dan Perancangan Sistem

- Informasi Manajemen Donasi , Kegiatan , dan Relawan bagi Komunitas Sosial di Kota Malang (Studi Kasus : Komunitas TurunTangan Malang),” *J. Pengemb. Teknol. Inf. dan Ilmu Komput. Univ. Brawijaya*, vol. 2, no. 9, pp. 3102–3109, 2018.
- [58] M. O. Prasetio, A. Setiawan, R. D. Gunawan, and Z. Abidin, “Sistem Pengendali Air Tower Rumah Tangga Berbasis Android,” *J. Tek. dan Sist. Komput.*, vol. 1, no. 2, pp. 53–58, 2020, doi: 10.33365/jtikom.v1i2.45.
- [59] A. Pangestu, M. A. Assuja, M. A. Assuja, T. Susanto, and T. Susanto, “Pengembangan Firmware Pada Sub Controller Robot Sepak Bola Humanoid Menggunakan Protokol Dynamixel 2.0,” *J. Tek. dan Sist. Komput.*, vol. 3, no. 2, pp. 104–117, 2023, doi: 10.33365/jtikom.v3i2.2357.
- [60] A. Pambudi, “Penerapan Crisp-Dm Menggunakan Mlr K-Fold Pada Data Saham Pt. Telkom Indonesia (Persero) Tbk (Tlkm) (Studi Kasus: Bursa Efek Indonesia Tahun 2015-2022),” *J. Data Min. dan Sist. Inf.*, vol. 4, no. 1, p. 1, 2023, doi: 10.33365/jdmsi.v4i1.2462.
- [61] A. Prayoga and A. R. Utami, “USE OF TECHNOLOGY AS A LANGUAGE LEARNING,” vol. 14, no. 3, pp. 1–10, 2021.
- [62] A. Wahyudi, I. Satyarno, L. Budi Suparma, and A. Taufik Mulyono, “Quality Assurance Dan Quality Control Pemeriksaan Jembatan Dengan Aplikasi Invi-J,” *J. Transp.*, vol. 21, no. 2, pp. 81–92, 2021, doi: 10.26593/jtrans.v21i2.5156.81-92.
- [63] S. Maulida, F. Hamidy, and A. D. Wahyudi, “Monitoring Aplikasi Menggunakan Dashboard untuk Sistem Informasi Akuntansi Pembelian dan Penjualan (Studi Kasus: UD Apung),” *J. Tekno Kompak*, vol. 14, no. 1, 2020.
- [64] A. Surahman, A. D. Wahyudi, A. D. Putra, S. Sintaro, and I. Pangestu, “Perbandingan Kualitas 3D Objek Tugu Budaya Saibatin Berdasarkan Posisi Gambar Fotogrametri Jarak Dekat,” *InfoTekJar J. Nas. Inform. dan Teknol. Jar.*, vol. 5, no. 2, pp. 65–70, 2021.
- [65] N. B. Pamungkas, D. Darwis, D. Nurjayanti, and A. T. Prastowo, “Perbandingan Algoritma Pixel Value Differencing dan Modulus Function pada Steganografi untuk Mengukur Kualitas Citra dan Kapasitas Penyimpanan,” *J. Inform.*, vol. 20, no. 1, pp. 67–77, 2020.
- [66] E. T. Handayani and D. Aminatun, “STUDENTS ’ POINT OF VIEW ON THE USE OF WHATSAPP GROUP,” vol. 1, no. 2, pp. 31–37, 2020.
- [67] Z. F. Pratiwi and M. Ayu, “THE USE OF DESCRIBING PICTURE STRATEGY TO IMPROVE SECONDARY STUDENTS’SPEAKING SKILL,” *J. English Lang. Teach. Learn.*, vol. 1, no. 2, pp. 38–43, 2020.
- [68] Z. F. Pratiwi and M. Ayu, “THE USE OF DESCRIBING PICTURE STRATEGY TO IMPROVE SECONDARY STUDENTS ’ SPEAKING SKILL Definition of Speaking,” vol. 1, no. 2, pp. 38–43, 2020.
- [69] A. Y. Wahyudin, R. Pustika, and M. W. Simamora, “Vocabulary Learning

- Strategies of Efl Students At Tertiary Level,” *J. English Lit. Educ. Teach. Learn. English as a Foreign Lang.*, vol. 8, no. 2, pp. 101–112, 2021, doi: 10.36706/jele.v8i2.15647.
- [70] M. W. B. Simamora and L. Oktaviani, “WHAT IS YOUR FAVORITE MOVIE?: A STRATEGY OF ENGLISH EDUCATION STUDENTS TO IMPROVE ENGLISH VOCABULARY,” *J. English Lang. Teach. Learn.*, vol. 1, no. 2, pp. 44–49, 2020.
- [71] R. Ambarwati and B. Mandasari, “THE INFLUENCE OF ONLINE CAMBRIDGE DICTIONARY TOWARD STUDENTS’ PRONUNCIATION AND VOCABULARY MASTERY,” *J. English Lang. Teach. Learn.*, vol. 1, no. 2, pp. 50–55, 2020.
- [72] O. A. Sasalia and F. M. Sari, “UTILIZING NOVEL IN THE READING CLASS TO EXPLORE STUSasalia, O. A., & Sari, F. M. (2020). UTILIZING NOVEL IN THE READING CLASS TO EXPLORE STUDENTS’ VIEWPOINT OF ITS EFFECTIVENESS. *Journal of English Language Teaching and Learning*, 1(2), 56–61. DENTS’ VIEWPOIN,” *J. English Lang. Teach. Learn.*, vol. 1, no. 2, pp. 56–61, 2020.
- [73] M. R. Choirunnisa and F. M. Sari, “TED Talks Use in Speaking Class for Undergraduate Students,” *Jambura J. English Teach. Lit.*, vol. 2, no. 1, pp. 35–40, 2021, doi: 10.37905/jetl.v2i1.7319.
- [74] M. R. Choirunnisa and B. Mandasari, “Secondary students’ views towards the Use of Google Classroom as an online assessments tools during Covid-19 pandemic,” *J. Arts Educ.*, vol. 1, no. 1, pp. 1–9, 2021.
- [75] V. Pallagani, V. Khandelwal, B. Chandra, V. Udutalapally, D. Das, and S. P. Mohanty, “DCrop: A deep-learning based framework for accurate prediction of diseases of crops in smart agriculture,” *Proc. - 2019 IEEE Int. Symp. Smart Electron. Syst. iSES 2019*, pp. 29–33, 2019, doi: 10.1109/iSES47678.2019.00020.
- [76] A. S. Puspaningrum, S. Suaidah, and A. C. Laudhana, “MEDIA PEMBELAJARAN TENSES UNTUK ANAK SEKOLAH MENENGAH PERTAMA BERBASIS ANDROID MENGGUNAKAN CONSTRUCT 2,” *J. Inform. dan Rekayasa Perangkat Lunak*, vol. 1, no. 1, pp. 25–35, 2020, doi: 10.33365/jatika.v1i1.150.
- [77] S. Samsugi, M. Bakri, A. Chandra, and ..., “Pelatihan Jaringan Dan Troubleshooting Komputer Untuk Menambah Keahlian Perangkat Desa Mukti Karya Kabupaten Mesuji,” *J. WIDYA ...*, vol. 2, no. 1, pp. 155–160, 2022, [Online]. Available: <https://www.jurnalwidyalaksmi.com/index.php/jwl/article/view/31%0Ahttps://www.jurnalwidyalaksmi.com/index.php/jwl/article/download/31/24>
- [78] H. Sulistiani, R. Triana, and N. Neneng, “Sistem Informasi Akuntansi Pengelolaan Piutang Usaha untuk Menyajikan Pernyataan Piutang (Open Item Statement) Pada PT Chandra Putra Globalindo,” *J. Tekno Kompak*, vol. 12, no. 2, pp. 34–38, 2018.
- [79] I. P. Ramayasa, I. W. Rupika Jimbara, I. W. Kayun Suwastika, and I. G. Angga Candrawibawa, “Pelatihan Pemasaran Online pada Mitra Lengis Nyuh di Tabanan,” *WIDYABHAKTI Jurnal Ilm. Pop.*, vol. 2, no. 3, pp. 50–60, 2020, doi:

- 10.30864/widyabhakti.v2i3.197.
- [80] A. M. Candra and S. Samsugi, “Perancangan Dan Implementasi Controller Access Point System Manager (Capsman) Mikrotik Menggunakan Aplikasi Winbox,” vol. 2, no. 2, pp. 26–32, 2021.
- [81] S. Samsugi, A. Nurkholis, B. Permatasari, A. Candra, and A. B. Prasetyo, “Internet of Things Untuk Peningkatan Pengetahuan Teknologi Bagi Siswa,” *J. Technol. Soc. Community Serv.*, vol. 2, no. 2, p. 174, 2021.
- [82] C. Wahyudi and A. R. Utami, “EXPLORING TEACHERS ’ STRATEGY TO INCREASE THE MOTIVATION OF THE STUDENTS DURING ONLINE,” vol. 9, no. 3, pp. 1–9, 2021.
- [83] A. . G. O. Wisnumurti, I. M. W. Candranegara, D. K. Suryawan, and I. G. N. Wijaya, “Collaborative Governance: Synergy Among the Local Government, Higher Education, and Community in Empowerment of Communities and Management of Potential Tourism Village,” vol. 154, no. AICoBPA 2019, pp. 112–115, 2020, doi: 10.2991/aebmr.k.201116.024.
- [84] M. A. Handayani, E. Suwarni, Y. Fernando, F. Fitri, F. E. Saputra, and A. Candra, “PENGELOLAAN KEUANGAN BISNIS DAN UMKM DI DESA BALAIREJO,” *Suluh Abdi*, vol. 4, no. 1, pp. 1–7, 2022.
- [85] A. Wantoro, E. R. Susanto, A. Sulistyawati, and A. Candra, “PKM Program Sekolah Binaan (PSB) di Sekolah Menengah Kejuruan Negeri (SMKN) Pertanian Pembangunan Lampung,” vol. 1, no. 2, pp. 81–86, 2022.
- [86] L. K. Candra and L. U. Qodriani, “An Analysis of Code Switching in Leila S. Chudori’s For Nadira,” *Teknosastik*, vol. 16, no. 1, p. 9, 2019, doi: 10.33365/ts.v16i1.128.
- [87] Candra Wahyu Hidayat, “The Influence Of Mix Marketing On Decisions For Use Of Online Transportation Towards Global Competition,” *Int. J. Sci. Technol. Manag.*, vol. 2, no. 4, pp. 1154–1163, 2021, doi: 10.46729/ijstm.v2i4.253.
- [88] E. Suwarni, M. A. Handayani, Y. Fernando, F. E. Saputra, and A. Candra, “Penerapan Sistem Pemasaran berbasis E-Commerce pada Produk Batik Tulis di Desa Balairejo,” *J. Pengabd. Masy. Indones.*, vol. 2, no. 2, pp. 187–192, 2022.
- [89] A. A. Hanifati *et al.*, “Application of Remote Sensing and GIS for Malaria Disease Susceptibility Area Mapping in Padang Cermin Sub-District, District of Pesawaran, Lampung Province,” *IOP Conf. Ser. Earth Environ. Sci.*, vol. 165, no. 1, 2018, doi: 10.1088/1755-1315/165/1/012012.
- [90] J. Teknologi *et al.*, “BERITA HASIL LIPUTAN WARTAWAN BERBASIS WEB (STUDI KASUS : PWI LAMPUNG),” vol. 2, no. 4, pp. 49–55, 2021.
- [91] A. Siregar and A. R. Utami, “ENGLISH LEARNING CURRICULUM IN JUNIOR HIGH,” vol. 8, no. 3, pp. 2–9, 2021.

- [92] E. Teknis *et al.*, “Digitalisasi Pertanian Menuju Kebangkitan Ekonomi Kreatif,” vol. 6, no. 1, p. 718, 2022.
- [93] A. A. Hanifati *et al.*, “Application of Remote Sensing and GIS for Malaria Disease Susceptibility Area Mapping in Padang Cermin Sub-District, District of Pesawaran, Lampung Province,” in *IOP Conference Series: Earth and Environmental Science*, Jul. 2018, vol. 165, no. 1. doi: 10.1088/1755-1315/165/1/012012.
- [94] J. Persada Sembiring *et al.*, “PELATIHAN INTERNET OF THINGS (IoT) BAGI SISWA/SISWI SMKN 1 SUKADANA, LAMPUNG TIMUR,” *J. Soc. Sci. Technol. Community Serv.*, vol. 3, no. 2, p. 181, 2022, doi: 10.33365/jsstcs.v3i2.2021.
- [95] N. U. Putri *et al.*, “Pelatihan Mitigasi Bencana Bagi Siswa/Siswi Mas Baitussalam Miftahul Jannah Lampung Tengah,” *J. Soc. Sci. Technol. Community Serv.*, vol. 3, no. 2, p. 272, 2022, doi: 10.33365/jsstcs.v3i2.2201.
- [96] Q. Jafar Adrian *et al.*, “Pengenalan Aplikasi Canva Kepada Siswa/Siswi Smkn 1 Tanjung Sari, Lampung Selatan,” *J. Soc. Sci. Technol. Community Serv.*, vol. 3, no. 2, p. 187, 2022, doi: 10.33365/jsstcs.v3i2.2020.
- [97] B. E. Pranoto and L. K. Afrilita, “The organization of words in mental lexicon: evidence from word association test,” *Teknosastik*, vol. 16, no. 1, pp. 26–33, 2019.
- [98] W. R. Oktavia and S. Suprayogi, “GRAMMATICAL COHESION IN BORIS JOHNSON’S SPEECH ENTITLED CORONAVIRUS SPREAD IN UK,” *Linguist. Lit. J.*, vol. 2, no. 1, pp. 8–16, 2021.
- [99] M. Y. Kardiansyah, “English Drama in the Late of VictoriaKardiansyah, M. Y. (2019). English Drama in the Late of Victorian Period (1880-1901): Realism in Drama Genre Revival. Teknosastik, 15(2), 64–68.n Period (1880-1901): Realism in Drama Genre Revival,” *Teknosastik*, vol. 15, no. 2, pp. 64–68, 2019.
- [100] A. Afrianto and I. Gulö, “Revisiting English competence at hotel,” *Teknosastik*, vol. 17, no. 1, pp. 35–39, 2019.
- [101] B. Mandasari, “The Impact of Online Learning toward Students’ Academic Performance on Business Correspondence Course,” *EDUTECH J. Educ. Technol.*, vol. 4, no. 1, pp. 98–110, 2020.
- [102] H. Kuswoyo and R. A. Siregar, “Interpersonal metadiscourse markers as persuasive strategies in oral business presentation,” *Ling. Cult.*, vol. 13, no. 4, pp. 297–304, 2019.
- [103] D. Amelia, A. Afrianto, S. Samanik, S. Suprayogi, B. E. Pranoto, and I. Gulo, “Improving Public Speaking Ability through Speech,” *J. Soc. Sci. Technol. Community Serv.*, vol. 3, no. 2, p. 322, 2022, doi: 10.33365/jsstcs.v3i2.2231.
- [104] L. Oktaviani, “Penerapan Sistem Pembelajaran Dalam Jaringan Berbasis Web Pada Madrasah Aliyah Negeri 1 Pesawaran,” *J. WIDYA LAKSMI (Jurnal Pengabd. Kpd. Masyarakat)*, vol. 1, no. 2, pp. 68–75, 2021.

- [105] S. Samanik and F. Lianasari, "Antimatter Technology: The Bridge between Science and Religion toward Universe Creation Theory Illustrated in Dan Brown's Angels and Demons," *Teknosastik*, vol. 14, no. 2, p. 18, 2018, doi: 10.33365/ts.v14i2.58.
- [106] J. Fakhrurozi, D. Pasha, J. Jupriyadi, and I. Anggrenia, "Pemertahanan Sastra Lisan Lampung Berbasis Digital Di Kabupaten Pesawaran," *J. Soc. Sci. Technol. Community Serv.*, vol. 2, no. 1, p. 27, 2021, doi: 10.33365/jsstcs.v2i1.1068.
- [107] M. Y. Kardiansyah and A. Salam, "Literary Translation Agents in the Space of Mediation," in *International Joint Conference on Arts and Humanities (IJCAH 2020)*, 2020, pp. 592–598.
- [108] D. Aminatun, P. Mulyah, and H. Haryanti, "the Effect of Using Dictogloss on Students' Listening Comprehension Achievement," *J. PAJAR (Pendidikan dan Pengajaran)*, vol. 5, no. 2, pp. 262–269, 2021, doi: 10.33578/pjr.v5i2.8246.
- [109] S. Suprayogi and B. E. Pranoto, "VIRTUAL TOURISM EXHIBITION ACTIVITY IN ENGLISH FOR TOURISM CLASS: STUDENTS' PERSPECTIVES," *Celt. A J. Cult. English Lang. Teaching, Lit. Linguist.*, vol. 7, no. 2, pp. 199–207, 2020.
- [110] L. Oktaviani and F. M. Sari, "REDUCING SOPHOMORE STUDENTS' DILEMA IN CREATING AN APPEALING TEACHING MEDIUM THROUGH SLIDESGO USAGE," *J. IKA PGSD (Ikatan Alumni PGSD) UNARS*, vol. 8, no. 2, pp. 342–349, 2020.
- [111] D. Puspita and D. Amelia, "TED-TALK: A SUPPLEMENT MATERIAL TO PROMOTE STUDENTS' AUTONOMY IN LISTENING," *ELTIN JOURNAL, J. English Lang. Teach. Indones.*, vol. 8, no. 2, pp. 91–102, 2020.
- [112] W. A. Febriantini, R. Fitriati, and L. Oktaviani, "AN ANALYSIS OF VERBAL AND NON-VERBAL COMMUNICATION IN AUTISTIC CHILDREN," *J. Res. Lang. Educ.*, vol. 2, no. 1, pp. 53–56, 2021.
- [113] E. N. E. W. Kasih, S. Suprayogi, D. Puspita, R. N. Oktavia, and D. Ardian, "Speak up confidently: Pelatihan English Public Speaking bagi siswa-siswi English Club SMAN 1 Kotagajah," *Madaniya*, vol. 3, no. 2, pp. 313–321, 2022, [Online]. Available: <https://madaniya.pustaka.my.id/journals/contents/article/view/189>
- [114] L. Oktaviani and B. Mandasari, "Powtoon: A digital medium to optimize students' cultural presentation in ELT classroom," *Teknosastik*, vol. 18, no. 1, pp. 33–41, 2020.
- [115] B. N. Sari and I. Gulö, "Observing Grammatical Collocation in Students' Writings," *Teknosastik*, vol. 17, no. 2, pp. 25–31, 2019.
- [116] J. Fakhrurozi and Q. J. Adrian, "Kajian Dan Praktik Ekranisasi Cerpen Perempuan di Rumah Panggung ke Film Pendek Angkon," *Deiksis J. Pendidik. Bhs. dan Sastra Indones.*, vol. 8, no. 1, pp. 31–40, 2021.
- [117] H. Kuswoyo and U. T. Indonesia, "TRANSITIVITY ANALYSIS OF PRESIDENTIAL DEBATE BETWEEN TRUMP AND TRANSITIVITY

- ANALYSIS OF PRESIDENTIAL DEBATE BETWEEN TRUMP AND BIDEN IN 2020,” no. December, 2021, doi: 10.33365/llj.v2i2.
- [118] C. Adelina and S. Suprayogi, “Contrastive Analysis of English and Indonesian Idioms of Human Body,” *Linguist. Lit. J.*, vol. 1, no. 1, pp. 20–27, 2020.
- [119] D. Aminatun and L. Oktaviani, “Memrise: Promoting Students’ Autonomous Learning Skill through Language Learning Application,” *Metathesis J. English Lang. Lit. Teach.*, vol. 3, no. 2, pp. 214–223, 2019, doi: 10.31002/metathesis.v3i2.1982.
- [120] T. Yulianti and A. Sulistiyawati, “The Blended Learning for Student’s Character Building,” in *International Conference on Progressive Education (ICOPE 2019)*, 2020, pp. 56–60.
- [121] D. Puspita, “CORPUS BASED STUDY: STUDENTS’ LEXICAL COVERAGE THROUGH BUSINESS PLAN REPORT WRITING,” *16 Novemb. 2019, Bandar Lampung, Indones. i.*
- [122] M. Y. Kardiansyah and A. Salam, “The Translator’s Strategy as a Cultural Mediator in Translating Indonesian Novel into English,” in *4th International Conference on Language, Literature, Culture, and Education (ICOLLITE 2020)*, 2020, pp. 413–418.
- [123] E. N. Endang Woro Kasih, I. Gulö, N. Sri Wahyuningsih, and R. Amalia Saadah, “Motivasi Melanjutkan Studi Ke Perguruan Tinggi Bagi Siswa SMA Desa Margosari,” *Empower. J. Pengabd. Masy.*, vol. 1, no. 4, pp. 482–488, 2022, doi: 10.55983/empjcs.v1i4.180.
- [124] K. Sari and B. E. Pranoto, “Representation of Government Concerning the Draft of Criminal Code in The Jakarta Post : A Critical Discourse Analysis,” vol. 11, no. 2, pp. 98–113, 2021.
- [125] E. A. Novanti and S. Suprayogi, “WEBTOON’S POTENTIALS TO ENHANCE EFL STUDENTS’ VOCABULARY,” *J. Res. Lang. Educ.*, vol. 2, no. 2, pp. 83–87, 2021.
- [126] I. Ahmad, R. I. Borman, G. G. Caksana, and J. Fakhrurozi, “Penerapan Teknologi Augmented Reality Katalog Perumahan Sebagai Media Pemasaran Pada PT. San Esha Arthamas,” *SINTECH (Science Inf. Technol. J.)*, vol. 4, no. 1, pp. 53–58, 2021.
- [127] H. Kuswanto, W. B. H. Pratama, and I. S. Ahmad, “Survey data on students’ online shopping behaviour: A focus on selected university students in Indonesia,” *Data Br.*, vol. 29, p. 105073, 2020.
- [128] I. Gulö, “How Nias Sees English Personal Pronouns Used as Preposition Objects,” *Ling. J. Bhs. dan Sastra*, vol. 18, no. 2, pp. 147–156, 2018.
- [129] A. Afrianto and U. Ma’rifah, “Tubuh dan Relasi Gender: Wacana Pascakolonial Dalam Novel ‘The Scarlet Letter’ Karya Nathaniel Hawthorne,” *LEKSEMA J. Bhs. dan Sastra*, vol. 5, no. 1, pp. 49–63, 2020.

- [130] E. Endang Woro Kasih, "Formulating Western Fiction in Garrett Touch of Texas," *Arab World English J. Transl. Lit. Stud.*, vol. 2, no. 2, pp. 142–155, 2018, doi: 10.24093/awejtls/vol2no2.10.
- [131] J. S. Al Falaq and D. Puspita, "Critical Discourse Analysis: Revealing Masculinity Through L-Men Advertisement," *Linguist. Lit. J.*, vol. 2, no. 1, pp. 62–68, 2021.
- [132] H. Kuswoyo *et al.*, "PENINGKATAN KETERAMPILAN TEST TOEIC BAGI SISWA / SISWI BERBASIS TEKNOLOGI DI SMKN 1 LABUHAN MARINGGAI , LAMPUNG TIMUR Pendahuluan," vol. 1, no. 2, pp. 44–50, 2023.
- [133] U. Nurmalasari and Samanik, "A Study of Social Stratification In France In 19th Century as Portrayed in 'The Necklace 'La Parure'' Short Story by Guy De Maupassant," *English Lang. Lit. Int. Conf.*, vol. 2, p. 2, 2018, [Online]. Available: <https://jurnal.unimus.ac.id/index.php/ELLIC/article/view/3570>
- [134] M. Fithratullah, "Representation of Korean Values Sustainability in American Remake Movies," *Teknosastik*, vol. 19, no. 1, p. 60, 2021, doi: 10.33365/ts.v19i1.874.
- [135] L. U. Qodriani, "English interference in bahasa Indonesia: A phonology-to-orthography case in Instagram caption," *English Lang. Lit. Int. Conf. Proc.*, vol. 3, pp. 349–355, 2021.
- [136] B. Mandasari and D. Aminatun, "VLOG: A TOOL TO IMPROVE STUDENTS' ENGLISH SPEAKING ABILITY AT UNIVERSITY LEVEL," *Proc. Univ. PAMULANG*, vol. 1, no. 1, 2020.
- [137] K. Nurhandayani and M. Rivai, "Sistem Kontrol Pengeriing Makanan Berbasis LED Inframerah," *J. Tek. ITS*, vol. 7, no. 2, 2019, doi: 10.12962/j23373539.v7i2.30921.
- [138] Y. P. Utami, K. Aqillamaba, D. Alan, and D. Cahyono, "IMPLEMENTASI MINAT BELAJAR SISWA TERHADAP PELAJARAN MATEMATIKA DENGAN METODE COOPERATIVE LEARNING TYPE STUDENTS TEAMS-ACHIEVEMENT DIVISION (STAD) PENDAHULUAN Pada dasarnya setiap siswa memiliki potensi , namun kemampuan berpikir siswa serta minat belaja," vol. 3, 2013.
- [139] A. Wahyudi, R. D. Agustin, and M. Ambarawati, "PENGEMBANGAN MEDIA APLIKASI GEOTRI PADA MATERI," vol. 3, no. 2, pp. 62–70, 2022.
- [140] N. Jusniani and U. Suryakancanai, "Analisis kesalahan dalam menyelesaikan soal kemampuan pemahaman matematis padamata kuliah kapita selekta matematika smp," vol. 3, no. 2, pp. 71–80, 2022.
- [141] R. Wijayanti and P. B. Lestari, "DENGAN MIND MAPPING BAGI MAHASISWA PENDIDIKAN," vol. 3, no. 2, pp. 81–87, 2022.
- [142] D. Avianty, R. K. Sari, and U. T. Indonesia, "PADA MATERI ARITMATIKA SOSIAL KELAS VII SMP," vol. 3, no. 2, pp. 88–93, 2022.

- [143] D. Parinata and U. T. Indonesia, “Pengaruh penggunaan aplikasi youtube dan facebook terhadap hasil belajar matematika 1,” vol. 2, no. 1, pp. 11–17, 2021.
- [144] D. Parinata, N. D. Puspaningtyas, and U. T. Indonesia, “STUDI LITERATUR : KEMAMPUAN KOMUNIKASI METEMATIS,” vol. 3, no. 2, pp. 94–99, 2022.
- [145] D. Milenia, N. C. Resti, and D. S. Rahayu, “Kemampuan siswa smp dalam penyelesaian soal matematika berbasis hots pada materi pola bilangan,” vol. 3, no. 2, pp. 100–108, 2022.
- [146] K. Wirnawa and P. S. Dewi, “EFEKTIVITAS MEDIA PEMBELAJARAN POWER POINT UNTUK MENINGKATKAN HASIL BELAJAR SISWA SMA NEGERI 1 GEDONGTATAAN DI ERA PANDEMI COVID 19,” vol. 3, no. 2, pp. 109–113, 2022.
- [147] I. B. N. Yoga Ligia Prapta, I. K. G. Darma Putra, and I. M. Agus Dwi Suarjaya, “Aplikasi Augmented Reality Dinamis Pengenalan Huruf Kanji (AR-Kanji) Berbasis Android,” *J. Ilm. Merpati (Menara Penelit. Akad. Teknol. Informasi)*, vol. 6, no. 3, p. 185, 2018, doi: 10.24843/jim.2018.v06.i03.p05.
- [148] I. K. W. Gunawan, A. Nurkholis, and A. Sucipto, “Sistem monitoring kelembaban gabah padi berbasis Arduino,” *J. Tek. dan Sist. Komput.*, vol. 1, no. 1, pp. 1–7, 2020.
- [149] L. Saparwadi, “KESALAHAN SISWA KELAS TIGA SEKOLAH DASAR DALAM,” vol. 3, no. 1, pp. 1–6, 2022.
- [150] S. N. Hikmah and S. Maskar, “Pemanfaatan aplikasi microsoft powerpoint pada siswa smp kelas viii dalam pembelajaran koordinat kartesius,” *J. Ilm. Mat. Realis.*, vol. 1, no. 1, pp. 15–19, 2020.
- [151] Y. P. Utami and S. Maskar, “ANALISIS KESULITAN BELAJAR MATEMATIKA MODEL ASYNCHRONOUS PADA SISWA SMKN 9 BANDAR LAMPUNG,” vol. 3, no. 1, pp. 12–21, 2022.
- [152] Y. P. Utami, D. Alan, D. Cahyono, and U. T. Indonesia, “STUDY AT HOME : ANALISIS KESULITAN BELAJAR,” vol. 1, no. 1, pp. 20–26, 2020.
- [153] N. Meutia, “Analisis kesulitan belajar siswa smp kelas vii pada materi bilangan terhadap kemampuan pemecahan masalah matematis siswa,” vol. 3, no. 1, pp. 22–27, 2022.
- [154] A. Fazariyah, P. S. Dewi, and U. T. Indonesia, “STUDI PENDAHULUAN : KONTRIBUSI FASILITAS BELAJAR DAN TINGKAT SOSIAL EKONOMI ORANG TUA TERHADAP HASIL BELAJAR MATEMATIKA,” vol. 3, no. 1, pp. 36–41, 2022.
- [155] C. Fatimah, D. Parinata, A. Efendy, Y. Santika, and U. T. Indonesia, “DIGITAL MATHEMATICS LEARNING COMPANION (DMLC): APLIKASI ANDROID GURU PENDAMPING KHUSUS MATEMATIKA,” vol. 2, no. 1, pp. 40–46, 2021.
- [156] S. Maskar, N. D. Puspaningtyas, C. Fatimah, and I. Mauliya, “Catatan Daring

- Matematika: Pelatihan Pemanfaatan Google Site Sebagai Media Pembelajaran Daring,” *Community Dev. J. J. Pengabd. Masy.*, vol. 2, no. 2, pp. 487–493, 2021, doi: 10.31004/cdj.v2i2.1979.
- [157] A. Efendi, S. Maskar, and U. T. Indonesia, “STUDI PENDAHULUAN: PENGARUH MODEL PEMBELAJARAN FLIPPED CLASSROOM TERHADAP HASIL BELAJAR,” vol. 3, no. 1, pp. 50–53, 2022.
- [158] A. Efendy and U. T. Indonesia, “DARING DAN PEMBELAJARAN MATEMATIKA SECARA LURING TERHADAP HASIL BELAJAR MATEMATIKA SISWA,” vol. 2, no. 1, 2021.
- [159] C. Fatimah and N. D. Puspaningtyas, “Dampak Pandemi Covid-19 terhadap Pembelajaran Online Mata Pelajaran Matematika di MAN 1 Lampung Selatan,” *J. Pendidik. Mat. Univ. LAMPUNG*, vol. 8, no. 4, pp. 250–260, 2020.
- [160] C. Fatimah, K. Wirnawa, and P. S. Dewi, “Analisis Kesulitan Belajar Operasi Perkalian Pada Siswa Sekolah Menengah Pertama (Smp),” *J. Ilm. Mat. Realis.*, vol. 1, no. 1, pp. 1–6, 2020.
- [161] M. Video, D. I. Era, F. Siwi, and N. D. Puspaningtyas, “PENERAPAN MEDIA PEMBEMBELAJARAN KOGNITIF DALAM MATERI PERSAMAAN GARIS LURUS,” vol. 1, no. 1, pp. 7–10, 2020.
- [162] F. Siwi and N. D. Puspaningtyas, “PENERAPAN MEDIA PEMBEMBELAJARAN KOGNITIF DALAM MATERI PERSAMAAN GARIS LURUS MENGGUNAKAN VIDEO DI ERA 4.0,” *J. Ilm. Mat. Realis.*, vol. 1, no. 1, pp. 7–10, 2020.
- [163] L. Parnabhakti, M. Ulfa, and U. T. Indonesia, “PERKEMBANGAN MATEMATIKA DALAM FILSAFAT,” vol. 1, no. 1, pp. 11–14, 2020.
- [164] L. Parnabhakti, N. D. Puspaningtyas, and U. T. Indonesia, “PERSEPSI PESERTA DIDIK PADA MEDIA POWERPOINT,” vol. 2, no. 1, pp. 18–25, 2021.
- [165] S. N. Hikmah, V. H. Saputra, and U. T. Indonesia, “Studi pendahuluan hubungan korelasi motivasi belajar dan pemahaman matematis siswa terhadap hasil belajar matematika,” vol. 3, no. 1, pp. 7–11, 2022.
- [166] S. N. Hikmah and U. T. Indonesia, “Hubungan kecerdasan numerik dan minat belajar terhadap kemampuan penalaran matematis siswa smp 1,” vol. 2, no. 1, pp. 33–39, 2021.
- [167] Y. P. Utami and P. S. Dewi, “Model Pembelajaran Interaktif SPLDV dengan Aplikasi Rumah Belajar,” *Mathema J. Pendidik. Mat.*, vol. 2, no. 1, pp. 24–31, 2020.
- [168] U. Habibah, R. Santika, P. Setiono, N. Yuliantini, and U. Bengkulu, “Analisis kesulitan belajar siswa sd dalam pembelajaran matematika secara daring,” vol. 2, no. 2, pp. 1–6, 2021.
- [169] M. Syahdan, “KURANGNYA MOTIVASI BELAJAR MATEMATIKA SELAMA

- PEMBELAJARAN DARING DI MAN 2 KEBUMEN,” vol. 2, no. 2, pp. 7–11, 2021.
- [170] N. Jusniani, L. Nurmasidah, and U. Suryakencana, “PENERAPAN MODEL PEMBELAJARAN GENERATIF UNTUK,” vol. 2, no. 2, pp. 12–19, 2021.
- [171] L. Saparwadi, “TIDAK BEKERJA PADA ANALISIS DATA KUALITATIF DAN,” vol. 2, no. 2, pp. 20–24, 2021.
- [172] D. Renadli and U. T. Indonesia, “PERSEPSI PESERTA DIDIK PADA MEDIA POWERPOINT,” vol. 2, no. 2, pp. 25–31, 2021.
- [173] S. Mutmainnah, “Pemilihan Moda Transportasi Kereta Api Menuju Pelabuhan Bakauheni,” *JICE (Journal Infrastructural Civ. Eng.*, vol. 1, no. 01, p. 33, 2020, doi: 10.33365/jice.v1i01.854.
- [174] T. Chairunnisa *et al.*, “Klaim Gizi Rendah Lemak pada Berbagai Jenis Keju : Literature Review,” *J. Andaliman J. Gizi Pangan, Klin. dan Masy.*, vol. 1, no. 1, pp. 1–12, 2021.
- [175] S. Wulandari, J. Jupriyadi, and M. Fadly, “Rancang Bangun Aplikasi Pemasaran Penggalangan Infaq Beras (Studi Kasus: Gerakan Infaq),” *TELEFORTECH J. Telemat. Inf. Technol.*, vol. 2, no. 1, pp. 11–16, 2021.
- [176] S. S. Syafiq, “Pengaruh Motivasi, Reward Dan Punishment Terhadap Kinerja Karyawan (Studi kasus Klinik Kecantikan Puspita Bandar Lampung),” *J. Ilmu Manaj. Saburai*, vol. 7, no. 1, pp. 57–66, 2021, doi: 10.24967/jmb.v7i1.1070.
- [177] Y. Rahmanto, S. Hotijah, and . Damayanti, “PERANCANGAN SISTEM INFORMASI GEOGRAFIS KEBUDAYAAN LAMPUNG BERBASIS MOBILE,” *J. Data Min. dan Sist. Inf.*, vol. 1, no. 1, p. 19, 2020, doi: 10.33365/jdmsi.v1i1.805.
- [178] D. Novita and N. Husna, “Peran ecolabel awareness dan green perceived quality pada purchase intention,” *J. Manaj. Maranatha*, vol. 20, no. 1, pp. 85–90, 2020.
- [179] L. F. Lina, D. A. Nani, and D. Novita, “Millennial Motivation in Maximizing P2P Lending in SMEs Financing,” no. September, pp. 188–193, 2021.
- [180] N. D. P. Yuliza Putri, “PERANAN E-LEARNING PEMBELAJARAN MATEMATIKA DI SEKOLAH DASAR,” vol. 2, no. 2, pp. 44–49, 2021.
- [181] P. S. Dewi, R. R. Anderha, L. Parnabhakti, and Y. Dwi, “SINGGAH PAI: APLIKASI ANDROID UNTUK MELESTARIKAN BUDAYA LAMPUNG,” *Jur. Mat. Fak. Mat. dan Ilmu Pengetah. Alam Univ. Lampung*, p. 62.
- [182] R. R. Anderha and S. Maskar, “ANALISIS KEMAMPUAN KOMUNIKASI MATEMATIS SISWA PADA PEMBELAJARAN DARING MATERI EKSPONENSIAL,” *J. Ilm. Mat. Realis.*, vol. 1, no. 2, pp. 1–7, 2020.
- [183] D. Parinata and N. D. Puspaningtyas, “Optimalisasi Penggunaan Google Form terhadap Pembelajaran Matematika,” *MATHEMA J. Pendidik. Mat.*, vol. 3, no. 1, pp.

- 56–65, 2021.
- [184] Y. D. Prastika and U. T. Indonesia, “Hubungan minat belajar dan hasil belajar pada mata pelajaran matematika di smk yadika bandar lampung 1,” vol. 2, no. 1, pp. 26–32, 2021.
- [185] F. Yolanda, R. Yuliandra, U. T. Indonesia, P. Model, and L. Drops, “MODEL LATIHAN DROPSHOT PADA ANAK UMUR 8-11 TAHUN P . B,” vol. 2, no. 2, pp. 35–38, 2021.
- [186] C. Fatimah, P. M. Asmara, I. Mauliya, and N. D. Puspaningtyas, “Peningkatan Minat Belajar Siswa Melalui Pendekatan Matematika Realistik Pada Pembelajaran Berbasis Daring,” *Mathema J. Pendidik. Mat.*, vol. 3, no. 2, pp. 117–126, 2021.
- [187] A. Efendi, C. Fatimah, D. Parinata, and M. Ulfa, “PEMAHAMAN GEN Z TERHADAP SEJARAH MATEMATIKA,” *J. Pendidik. Mat. Univ. LAMPUNG*, vol. 9, no. 2, pp. 116–126, 2021.
- [188] W. T. Wiriani and U. T. Indonesia, “Pengaruh kemandirian belajar terhadap hasil belajar siswa pada pembelajaran online,” vol. 2, no. 1, pp. 57–63, 2021.
- [189] S. Maskar and R. R. Anderha, “Pembelajaran transformasi geometri dengan pendekatan motif kain tapis lampung,” *Mathema J. Pendidik. Mat.*, vol. 1, no. 1, pp. 40–47, 2019.
- [190] R. R. Anderha and S. Maskar, “PENGARUH KEMAMPUAN NUMERASI DALAM MENYELESAIKAN MASALAH MATEMATIKA TERHADAP PRESTASI BELAJAR MAHASISWA PENDIDIKAN MATEMATIKA,” *J. Ilm. Mat. Realis.*, vol. 2, no. 1, pp. 1–10, 2021, [Online]. Available: <http://jim.teknokrat.ac.id/index.php/pendidikanmatematika/article/view/774>
- [191] L. Parnabhakti and N. D. Puspaningtyas, “Penerapan Media Pembelajaran Powerpoint melalui Google Classroom untuk Meningkatkan Hasil Belajar Siswa,” *J. Ilm. Mat. Realis.*, vol. 1, no. 2, pp. 8–12, 2020.
- [192] N. Nugroho, R. Napianto, I. Ahmad, and W. A. Saputra, “PENGEMBANGAN APLIKASI PENCARIAN GURU PRIVAT EDITING VIDEO BERBASIS ANDROID,” *J. Inf. dan Komput.*, vol. 9, no. 1, pp. 72–78, 2021.
- [193] W. Saputra and U. T. Indonesia, “Pengaruh kreativitas siswa terhadap hasil belajar matematika siswa kelas xi,” vol. 1, no. 2, pp. 13–16, 2020.
- [194] Y. Rodiques and G. B. Rahanatha, “Peran Brand Trust Memediasi Hubungan Brand Image Dengan Brand Loyalty (Studi Pada Konsumen Iphone di Kota Denpasar),” vol. 7, no. 3, pp. 1310–1338, 2018.
- [195] S. Yolanda and N. Neneng, “Rancang Bangun Sistem Informasi untuk Perhitungan Biaya Sewa Kontainer Pada PT Java Sarana Mitra Sejati,” *J. Ilm. Sist. Inf. Akunt.*, vol. 1, no. 1, pp. 24–34, 2021.
- [196] L. A. Putri and U. T. Indonesia, “EUCLIDEAN VOICE : APLIKASI

PEMBELAJARAN GEOMETRI EUCLID BERBASIS ANDROID UNTUK PENYANDANG TUNANETRA,” vol. 1, no. 2, pp. 23–27, 2020.

- [197] L. A. Putri and P. S. Dewi, “Media Pembelajaran Menggunakan Video Atraktif pada Materi Garis Singgung Lingkaran,” *MATHEMA J. Pendidik. Mat.*, vol. 2, no. 1, pp. 32–39, 2020.
- [198] S. Samsugi, Z. Mardiyansyah, and A. Nurkholis, “Sistem Pengontrol Irigasi Otomatis Menggunakan Mikrokontroler Arduino UNO,” *J. Teknol. dan Sist. Tertanam*, vol. 1, no. 1, pp. 17–22, 2020.
- [199] B. D. Juniansyah, E. R. Susanto, and A. D. Wahyudi, “Pembuatan E-Commerce Pemesanan Jasa Event Organizer Untuk Zero Seven Entertainment,” *J. Tekno Kompak*, vol. 14, no. 1, pp. 41–46, 2020.
- [200] S. Samsugi, A. I. Yusuf, and F. Trisnawati, “Sistem Pengaman Pintu Otomatis Dengan Mikrokontroler Arduino Dan Module Rf Remote,” *J. Ilm. Mhs. Kendali dan List.*, vol. 1, no. 1, pp. 1–6, 2020, doi: 10.33365/jimel.v1i1.188.