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IMPLEMENTATION OF ARTIFICIAL INTELLIGENCE (AI) TECHNOLOGY IN GOOGLE SUITE-BASED LEARNING FOR ACCOUNTING TEACHERS AT VOCATIONAL HIGH SCHOOLS

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Abstract
The development of Artificial Intelligence (AI) technology has presented a significant opportunity to revolutionize the world of education, particularly in supporting more interactive, adaptive, and effective learning. However, at the school level, the understanding and utilization of Artificial Intelligence (AI) among educators or teachers remains very limited. However, technological literacy, including the use of Artificial Intelligence (AI), is an essential skill for addressing the challenges of education in the digital age. This community service program aims to enhance students' technological literacy by implementing Artificial Intelligence (AI) in Google Suite-based learning. This activity will provide training on the use of Artificial Intelligence (AI) features in Google Suite, including Google Docs, Google Sheets, and Google Slides, which can be utilized to support the learning process. Educators or teachers will learn to optimize Artificial Intelligence (AI) technology to enhance productivity, creativity, and collaboration skills in various academic and professional contexts. The targeted outcomes include improving the skills of educators or teachers in using Artificial Intelligence (AI) for technology-based learning, the availability of digital training modules containing practical guidelines for integrating Artificial Intelligence (AI) into Google Suite, and the formation of a sustainable technology-based learning community that can serve as a model for other educational institutions.
Keywords: AI Implementation, Google Suite, Google Docs, Google Sheets, and Google Slides

INTRODUCTION

The technological revolution in recent decades has brought about significant changes in various sectors, including education. One of the rapidly developing technologies is Artificial Intelligence (AI), which has been recognized as a potential tool to support interactive and adaptive learning. According to Wang et al. (2021), AI has the potential to enhance the quality of education through personalization, increased efficiency, and improved effectiveness of the teaching and learning process. It is reinforced by the findings of Boulton (2022), who states that AI in education can reduce learning gaps by providing approaches tailored to individual needs, particularly in higher education.

Technology platforms such as Google Suite have also proven to be practical tools in supporting academic collaboration and productivity. Kumar and Sharma (2022) explain that Google Suite features, such as Google Docs, Google Slides, and Google Sheets, offer enhanced collaboration opportunities, enabling students to work synchronously on academic projects. On the other hand, local research by Putri and Haryanto (2023) indicates that students in Indonesia who are exposed to technology-based learning, including Google Suite, exhibit a 30% increase in collaborative skills compared to conventional methods.

METHOD AND PROCEDURES

The stages and implementation of this activity began with the community service team's systematic preparation of an activity framework. The steps taken included formulating the main objectives of the training, namely to improve the competence of vocational school teachers majoring in accounting in Jakarta in integrating AI into learning using Google Suite, preparing material plans, methods, and workshop activity flows, as well as determining the implementation schedule, activity location, and training participant targets.

During the needs and participant identification stage, the team analyzed the needs of vocational school accounting teachers in Jakarta regarding the use of AI on Google Suite and identified teachers who needed to improve their digital skills as part of technology-based learning development. Following this, relevant workshop materials and modules were developed, covering the use of AI in Google Docs, Google Sheets, and Google Slides within the context of accounting education, as well as creating practical guide modules to help participants better understand and apply the material.

The committee conducted activities involving the implementation of AI on Google Suite, including Google Docs, Google Sheets, and Google Slides, to enhance the digital competence of vocational school accounting teachers in Jakarta through independent practice, applying the material explained according to their respective learning needs.

The details of this seminar activity are as follows:

1. Time and Place of Implementation

   Day and Ladder Implementation: Wednesday, April 06, 2025

   Implementation Time: 09.00 WIB – 2.00 p.m.

   Place of Implementation: SMK Negeri 50 Jakarta

2. Implementation (Event Arrangement)

   The composition of the implementation event is as follows:

Table 1. Event Arrangements

No	Waktu	Acara	Penanggung Jawab
1	08.00 s.d 09.00	Pengkondisian peserta	Panitia
2	09.00 s.d 09.10	Pembukaan acara	MC
3	09.10 s.d 09.20	Opening Speech oleh Ketua Pengabdian Masyarakat	Ati Sumiati, S.Pd., M.M
4	09.20 s.d 09.30	Sambutan dan pembukaan oleh Kepala Sekolah	Juariah, M.Pd
5	09.30 s.d 12.30	Materi Workshop dan praktek	Oleh Wisnu Anugerah Rivai S.Pd di bantu oleh ibu Ati sumiati dan panitia mahasiswa
6	12.30 s.d 13.00	Evaluasi dan Pemberian sertifikat kepada narasumber 1	Panitia
7	13.00 s.d 14.00	Pemberian tugas mandiri dan Ramah tamah serta penutupan	Panitia dan MC

RESULTS

The documentation of community service activities on "Implementation of Artificial Intelligence (AI) Technology in Google Suite-Based Learning for Accounting Teachers at Vocational High Schools" is as follows:

Figure 1. Conditioning Participants

Figure 2. Opening of the event by the MC

Figure 3. Opening Speech by Ati Sumiati, S.Pd., M.Ak.

Figure 4. Opening Ceremony by Juariah, M.Pd.

Figure 5. Workshop Material Presentation and Practice

CONCLUSION

The training activity, "Implementation of Artificial Intelligence (AI) Technology in Google Suite-Based Learning for Accounting Teachers at Vocational High Schools," to enhance research competencies for teachers, was presented by Mr. Wisnu Anugerah Rivai, S.Pd., as the speaker, and held on Wednesday, August 06, 2025. The activity "Implementation of Artificial Intelligence (AI) Technology in Google Suite-Based Learning for Accounting Teachers at Vocational High Schools" can provide competency development for teachers in the development of learning tools or teaching media. Additionally, this activity is expected to foster an academic atmosphere within the school environment, thereby improving the quality of education and learning in line with current digital media developments. The training activity will provide knowledge on the use of AI in Google Suite-based learning and enable its implementation, allowing it to be utilized in the future as a tool to

develop and enhance the quality of learning through appropriate methods, models, approaches, and learning strategies, thereby improving student learning outcomes.

As a follow-up, it is recommended that a follow-up mentoring program be established for teachers, such as mentoring or training clinics, either in-person or online, to facilitate the continued development of AI applications in daily learning practices. In addition, forming a learning community for accounting teachers focused on technology is crucial for facilitating the exchange of experiences, innovations, and solutions related to the challenges of implementing AI in the classroom. It can be supported through digital platforms such as Google Classroom or online forums. These steps are expected to optimize the effective use of AI.

The results of this training provide a strong foundation for accounting teachers to implement innovative learning by utilizing artificial intelligence (AI) technology through Google Suite. The training at SMK Negeri 50 Jakarta not only provides an understanding of AI concepts in education, but also encourages participants to immediately practice compiling learning materials and interactive media using Google Docs, Google Sheets, and Google Slides. As a result, this initiative enhances teachers' digital skills while enriching accounting teaching methods to better adapt to technological advancements.

This training also succeeded in sparking innovation among teachers by generating various creative ideas, ranging from the development of more systematic lesson plans to the use of automatic assessment sheets that facilitate evaluation, and the creation of interactive presentation media to increase student motivation to learn. The demonstration shows that the training serves not only as a platform for knowledge transfer but also as a collaborative space for generating ideas relevant to the accounting education needs of vocational high schools.

The positive impact that can be seen is an increased awareness among teachers of the importance of digital technology in learning. With the support of Google Suite, the preparation of teaching materials has become more efficient, and presentation media have become more attractive to students, which is expected to increase motivation to learn, especially in accounting subjects.

Furthermore, this training encourages the formation of technology-based learning communities for accounting teachers. Through these communities, teachers can share experiences, identify problems, and collaborate on finding solutions to apply AI in the classroom. A plan for regular mentoring and monitoring is also in place to ensure that the skills acquired continue to develop and improve. With this ongoing support, the application of AI in accounting education in vocational schools can have a long-term positive impact and serve as a model for professional development for teachers in the digital age.

Figure 6. Awarding of Certificates to SMK Negeri 50 Jakarta

Figure 7. Awarding Certificates to Resource Persons

Figure 8. Documentation

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