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Counseling on Understanding and Utilizing Artificial Intelligence (AI) in Learning for High School Students

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A B S T R A C T

Artificial Intelligence (AI) has become an essential component in various aspects of life, including education. However, the challenges in understanding and applying AI are still significant, especially among high school students. To address this issue, we plan to conduct a socialization activity on Understanding and Utilizing AI in Learning for High School Students. The main objective of this activity is to provide knowledge and understanding about AI to high school students, as well as to demonstrate how they can utilize this technology in their learning process. Thus, this activity is expected not only to help students better understand AI but also to prepare them for an increasingly digital world and future job market. We hope that this activity will support the enhancement of knowledge, skills, awareness, and readiness of high school students in utilizing AI.

INTRODUCTION

A. Background

Artificial Intelligence (AI) has become an essential component of many aspects of modern digital life, including education. Its potential to transform teaching and learning methods cannot be overlooked. Therefore, understanding and utilizing AI among high school students is increasingly important.

However, significant challenges remain in understanding and applying AI, particularly among high school students. Many students may lack basic knowledge about AI and how this technology can be used to support learning. In addition, limited access to resources and tools required to study AI presents another barrier.

B. Solution

In response to these challenges, the outreach program on understanding and utilizing Artificial Intelligence (AI) in learning for high school students becomes highly important. The primary objective of this activity is to provide students with knowledge and understanding of AI and to demonstrate how they can apply this technology in their learning processes.

Through this initiative, students are expected not only to gain a clearer understanding of AI but also to become better prepared to face an increasingly digital world. Furthermore, this program can help them become more competitive in the future job market, where AI-related knowledge and skills will play an increasingly significant role.

C. Expected Outcomes

Based on the identified problems and proposed solutions, this program will conduct outreach activities for high school students regarding the utilization of Artificial Intelligence (AI), with the following expected outcomes:

1. **Improved Knowledge**
   High school students will gain a better understanding of AI, including what AI is, how it works, and how it can be applied in learning.
2. **Improved Skills**
   Students will develop essential skills needed to utilize AI in learning, such as basic programming, data analysis, and problem-solving.
3. **Increased Awareness**

Students will become more aware of the importance of AI in an increasingly digital world and understand how AI may influence their future.

4. **Enhanced Readiness**
   Students will be better prepared to face a digital future and the evolving job market, where AI-related knowledge and skills will be increasingly important.

C. Community Service Method

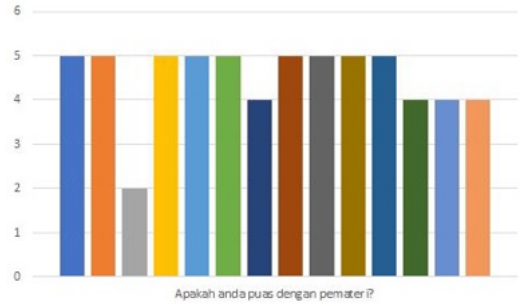
Our role in this activity is to assist the partner institution by providing information and guidance to improve students' understanding and use of Artificial Intelligence through interactive presentations. In this collaboration, the partner provides the venue and institutional support needed to foster a community that is knowledgeable and responsible in the use of AI. The partner is expected to actively support the implementation of this program.

RESULTS OF THE COMMUNITY SERVICE ACTIVITIES

A. Statistic Feedback

In the evaluation form that we distributed, several questions were included to assess the outcomes of the outreach activity, using a rating scale from 1 (Strongly Disagree) to 5 (Strongly Agree). We received feedback from 14 respondents, with the results summarized as follows:

1. Participants Satisfaction with the Training Material
   Based on the survey results, most respondents agreed, with 92.8% expressing satisfaction with the presenter.



Gambar. 1. Feedback Statistic - 1

2. Understanding of the Delivered Material
   Based on the survey results, most respondents agreed, with 85.7% stating that they understood the material that was delivered.

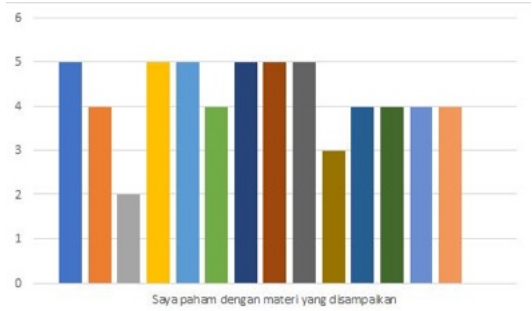


Figure. 2. Feedback Statistic - 2

3. Participants Interest in the Use of AI
   Based on the survey results, the majority of respondents agreed, with 92.8% expressing interest in using AI in their learning activities.

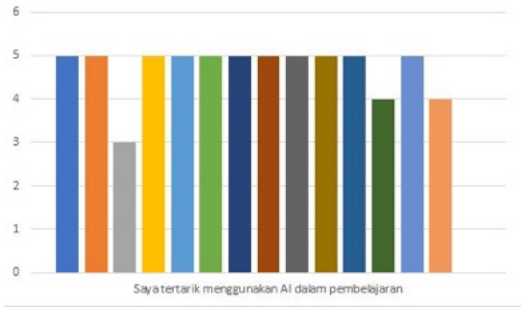


Figure. 3. Feedback Statistic - 3

4. Participants Awareness of the Use of AI
   Based on the survey results, most respondents agreed, with 92.8% indicating awareness of the importance of using AI in learning.

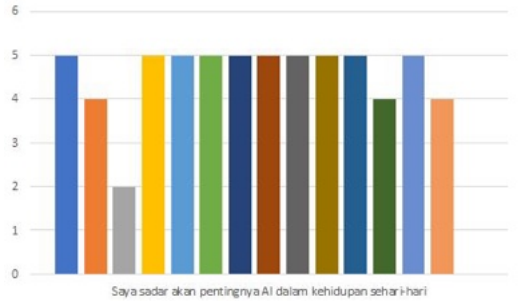


Figure. 4. Feedback Statistic - 4

5. Participants Awareness of Readiness to Face a Future Workforce Where AI Is Highly Important
   Based on the survey results, the majority of respondents agreed, with 85.7% stating that they felt prepared to face the future workforce.

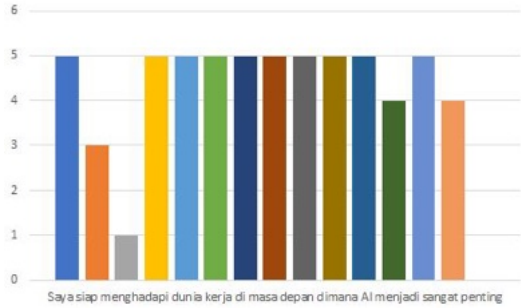


Figure. 5. Feedback Statistic - 5

B. Survey Analysis

The outreach activity titled "Counseling on Understanding and Utilizing Artificial Intelligence (AI) in Learning for High School Students," conducted on December 12, 2023, has been successfully completed. The session was attended by 22 participants from SMA Sebelas Maret Bandung. The feedback results are summarized in the statistical feedback section above. Overall, we believe that the outreach program achieved positive outcomes and was well received by both teachers and students of SMA Sebelas Maret Bandung.

CONSLUSION

The outreach activity titled "Counseling on Understanding and Utilizing Artificial Intelligence (AI) in Learning for High School Students" was conducted on December 12 from 09:00 to 10:00. The activity was structured into several stages, including a 10-minute participant preparation session for grade 12 students, 10 minutes of general preparation, a 5-minute opening session, a 10-

minute pretest on students' AI knowledge, 10 minutes of core material delivery, a 10-minute ice-breaking game, and a 5-minute closing session followed by a group photo.

Due to the positive response from the partner institution and the students of SMA Sebelas Maret Bandung, the activity met the established success parameters. The material presented was evaluated as relevant to participants' needs and provided valuable new insights. The delivery of the material was clear and easy to understand, and the event was executed effectively. The time allocated for completing the activity was considered appropriate andsufficient.

To improve the quality of similar activities in the future, several recommendations are proposed. First, the duration of the activity should be extended to allow participants more time to understand the material in depth. Second, greater interaction between presenters and participants should be encouraged, particularly through practical exercises. Finally, future activities could be made more engaging by incorporating interactive media and technology.

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