
Introducing Smart Machines Technology and Netiquette for Highschool Students

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Abstract: *Artificial intelligence is evolving and changing what work means in industrial settings. Smart machines are replacing numerous tasks normally done by human workers. Thus, the young generation needs to be prepared and guided, making them aware of what competencies they should acquire before entering the society. The present community service activity aims to communicate the importance of understanding Smart Machines Technology and Netiquette for Highschool-Students in a public senior high school in Cirebon city, namely SMAN 6 Cirebon. A seminar about smart machines and netiquette was conducted. The young generation frequently uses social networking sites to communicate with friends. Ethics in communication must be appropriately implemented in online platforms. In parallel, a digital library system was developed in the school. Literature review, interviews with digital technology professionals, and discussions with school librarians were carried out throughout this community service activity.*

Introduction

Artificial intelligence (AI) is taking on new dimensions and redefining what work means in industrial settings (Woo, 2020). Dramatic transformations have emerged as a result of the Industrial Revolution 4.0. Smart machines are replacing many human workers (Tamam, 2020). Some workers are replaced and lose their jobs due to the adoption of industrial robots by businesses in the local labor market (Schwabe & Castellacci, 2020). This awareness needs to be shared with the young generation, i.e. high school students, so they can anticipate and prepare the appropriate skills for the future.

Young people engage in online friend communication using social networks very frequently and at progressively younger ages (Cabezas-González et al., 2021). Combinations of digital audio, image, video, and texts in one-way or two-way communications in multiple platforms and channels dominate how society interacts. In various communications like this, ethics need to be placed correctly.

The term netiquette, a portmanteau of the words Internet and etiquette, refers to the idea that offline culture is reflected in online culture. Etiquette online is a subset of offline etiquette, so it should be viewed in light of its counterpart (Heitmayer & Schimmelpfennig, 2023). Netiquette is still required to be informed in the community (Wulandari & Wandy, 2023), alongside digital literacy. Informing students about the benefits of netiquette has been carried out in past community service activities (Wandy et al., 2020).

In schools, libraries play a crucial role in assisting students to gain more understanding and knowledge (Rahmanto et al., 2022), and a practical tool for advancing the movement for increased school literacy is the school library (Kastro, 2020). The high quality of the school library is essential for supporting academic activities. Numerous book collections are required to be managed appropriately.

To address the aforementioned issues, the lecturers from the Faculty of Engineering and Technology, Sampoerna University, conducted a series of community service activities with the main topics of "Introducing Smart Machines Technology and Netiquette for Highschool Students", and digital library development at SMAN 6 Cirebon, a public senior high school in Cirebon city, West Java, Indonesia. These community service activities were started in February 2023 and finished by September 2023, and is recognized as a continuation program from the previous year activity (Lestari et al., 2022).

Methodology

This community service employed a qualitative research methodology with an Internet-based literature review, discussions with school librarians, and library professionals over about 3 months. This includes the process of writing this article for a journal publication. Figure 1 shows various activities done in this community service program.

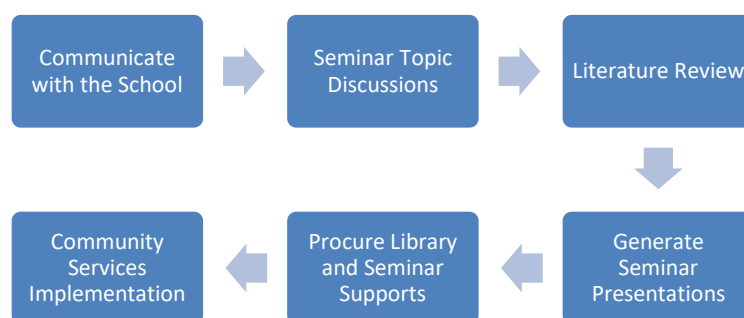


Figure 1. Community Service Activities

Communications with the school were established around July 2023 through phone calls and instant messaging texts. Seminar topic discussions have been held internally to define suitable topics for a day seminar session, and two topics were selected: Smart Machines Technology and Netiquette. A literature review about smart machines and netiquette was then

explored for the updated references from news, statistics data, proceedings, and journals. These references were used to generate a seminar presentation for high school students. Foods, beverages, and prizes were prepared for the seminars. The prizes were given as a gift to the students who actively participated during the quiz session in the seminar. Online quizzes were introduced to generate interactivity between the resource persons and the audiences.

A digital library system installed in SMAN 6 Cirebon from the previous activity (Lestari et al., 2022) was reviewed and maintained. An equipment has been procured for the digital library development, followed by a discussion with the librarian in SMAN 6 Cirebon.

Result

A library visits and discussion with the librarians were done to receive information about the library development progress on 14 August 2023. Contributions in the form of novel books and a computer monitor were carried out to further enhance the library services for the students. Significant progress was found in the library development, such as many library member cards have been printed and numerous book data have been input into the library system implemented in the previous work (Lestari et al., 2022). The visit and discussion are shown in Figure 2.



Figure 2. Discussion Session with Librarians

A seminar about Smart Machines Technology and Netiquette was successfully held with more than 100 student participants on 15 August 2023. The students were from year 10, 11, and 12. Some teachers also attended the seminar. Three resource persons, Rafie Djajasoepena, Farid Triawan, and Wandy, were involved in the seminar in 3 hours duration. In the end, a Q&A session and quizzes were performed with the support of an online questionnaire application. In addition, this event is covered in the news media (Sutrisno, 2023). Figure 3

shows the seminar session with students in a hall on the second-floor room.



Figure 3. Seminar Sessions with Students

Table 1 shows the series of all community service activities that have been done in SMAN 6 Cirebon. The topics of community service were defined after an internal discussion and analysis with the schools' representative. Several supporting materials for the library development and seminar were then procured. Discussion with the School Principal and the Librarian was conducted from February to July 2023. The seminar about Smart Machines Technology and Netiquette with the students was on 15 August 2023. After all activities were completed, the certificates were printed and signed a month later, on 14 September 2023.

Table 1. Community Service Activities

#	Activity	Status	Schedule
1	Community Service Analysis	Completed	February 2023
2	Discussion with the School Management and Librarians	Completed	March-April 2023
3	Internal Discussion and Planning	Completed	June 2023
4	Procure Supporting Materials	Completed	July 2023
5	Seminar Session with Students	Completed	August 2023
6	Print and Sign Participants' Certificate	Completed	September 2023
7	Writing paper manuscript	Completed	October 2023

Conclusion

This article presents a series of community service activities conducted at a public senior high school in Cirebon city, SMAN 6 Cirebon, Indonesia. The activities were started in February and completed by September 2023. A discussion with the school librarian was performed to monitor the progress of the digital library development. Finally, a seminar about Smart Machines Technology and Netiquette was delivered to the students to mark the completion of community service program at SMAN 6 Cirebon.

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