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Improving Digital Creativity of Students at State Senior High School 8 Garut through AI Photography

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ABSTRACT

The rapid development of smartphone technology has given birth to a new visual culture, making digital photography a crucial competency for the existence and creativity of the younger generation in social media. This community service aims to improve the photography skills of students of SMA Negeri 8 Garut through the use of artificial intelligence (AI). The activity was carried out using an educational mentoring method that focused on basic techniques (Composition, lighting, angles and optimization of AI features. The evaluation results showed that the program was effective, where the majority of participants achieved a good level of understanding of basic techniques (21% very understanding, 50% understanding, 26.6% quite understanding) and the use of AI features (35.7% very understanding, 64.3% understanding). Overall, this training succeeded in becoming an initial provision for developing students' economic potential in the field of photography, although the in-depth study on aspects of manual camera settings and low-level techniques light still needs improvement in the future.

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INTRODUCTION

The advancement of digital technology has provided new opportunities for young people to express themselves and develop their creativity. One of the most popular forms of expression among young people today is photography. With easy access to smartphones equipped with sophisticated cameras, anyone can create visually. The phenomenon has develop become form of self-expression, a hobby, and even a profession. For young people, photography isn't just about technique, but also about visual narrative. They use social media platforms like Instagram, TikTok, and Facebook to share their work, gain recognition, and connect with the community. Various genres of photography are in demand, from selfies, food photography, fashion, to street photography. Advances in technology, particularly in artificial intelligence (AI), have revolutionized the world of photography, enabling anyone to produce high-quality images using only a smartphone. Artificial Intelligence (AI) also opens up huge opportunities to foster creativity and visual skills in young people. Artificial Intelligence (AI) is a branch of computer science that aims to develop systems and machines capable of performing tasks that typically require human intelligence. AI works by utilizing various algorithms and mathematical models that enable computers and systems to learn from data, recognize patterns, and make intelligent decisions (Eriana & Zein, 2023). Nowadays, many devices, including smartphone cameras, utilize AI technology that makes it easier work human. This technology analyzes conditions around through the sensor, then processes and adjusts camera settings automatically (Yudisetyanto & Firmansyah, 2024).

Although massive smartphone adoption, the potential of AI is often untapped and not utilized optimally. Many young people only use automatic settings without understanding basic photography techniques or hidden AI features to produce more work. Lack of understanding about the method Work features this sophisticated often causes photo results to be less optimal, which is Finally hinder development of talents and interests in photography. Even though mastery of digital photography skills is very relevant for various professions in the future, such as content creators, journalists, and professionals. The trend of generative AI users in the creative industry is developing rapidly, indicating that AI integration with photography skills is essential in the future (Utami & Putra, 2025). This data shows there is a gap between the adoption of massive smartphone technology and the literacy use of features sophisticated in it, especially those related to photography and AI. According to a survey conducted by the Association of Indonesian Internet services, on 2025, involving 8700 respondents state results survey 27.34% have used AI. The age range using AI is Generation Z, namely 43.7 percent, and millennials, as much as 22.3 percent. Most AI content is often accessed for education and learning, and entertainment (Aranditio Stephanus, 2025). This shows the need for direct utilization of AI in aspect productivity creative, such as photography.

Based on the results of observations made by the author, namely, where more and more cameras on smartphones are embedded with AI and many AI applications to help creativity in making photographic works of art, but there are still many people who do not know the AI features embedded in smartphone cameras and AI applications that help in photographic creativity. As well as direct interviews with photography supervisors at SMA Negeri 8 Garut and situation analysis that has been carried out together with students of SMA Negeri 8 Garut and direct observations in the field found several problems faced in developing creativity and skills of young people in the world of photography among the 20 students of SMA Negeri 8 Garut who became the object of this community service activity did not understand the basic techniques of smartphone photography, the students did not fully understand and utilize the AI features available on smartphone cameras, the lack of applicable training facilities, and had not fully utilized smartphones to increase creativity and produce photos that have artistic value and

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economic value. therefore, intervention systematic education required for bridge gap between technology availability and understanding its users (Mahnunah et al., 2021).

Therefore, this research is relevant conducted at State Senior High School 8 Garut in accordance with problems faced. This devotion also relevant with devotee previous article entitled " Basic Smartphone Photography Technique Training as a Medium for Developing Creativity For Youth During the COVID-19 Pandemic in the Village Drono, Klaten " Aims give understanding and practical experience about concepts, basic smartphone photography techniques, and potential creation mark art and values sell from the results of the photos, with hope can develop creativity and skills that have opportunities create economic value. Results study show that training the give benefit significant for participant as supplies beginning for understand smartphone photography techniques, pushing emergence creativity, adding skills in produce quality photos, and open outlook about opportunity mark plus economically. overall, activities devotion this society is assessed successful and got a very good response positive from active and enthusiastic participants, successful increase knowledge, understanding, and practical skills of smartphone photography that have potential for applied in development business independence and improvement economic value (Mahnunah et al., 2021). Some studies Also highlight effectiveness training based smartphone technology in increase skills and motivation participant educate like on devotion previous one entitled " Training " Utilization Photo Editing Application Using Smartphones for Increase Interest Learning and Creativity Student New SMPN Maritaing " found that training photo editing successful reach objective mainly, namely increase creativity and interest learning. The result show improvement significant, where 85% of students control basic photo editing skills independent and 80% showed improvement interest learning, which is seen from participation active they in activity based project relevant visuals with learning (Juliani et al., 2025). In line with devotion previous focused on " Improvement Insight and Skills Journalism Through Utilization of Smartphones by Students of State Senior High School 21 Garut " also show impact positive intervention training. Post-test results after training show improvement substantial insight and skills, where 98% of students own greater understanding Good about journalism as well as control skills practical in photo taking, video journalism, and writing news using a smartphone. Both this research is consistent conclude that training based easy use of simple technology accessible (such as application photo editing and smartphone functions) is an effective strategy for develop skills practical, growing creativity, and improve motivation as well as interest Study student (Marviana & Nurhadi, 2024).

The focus of this service is give training intensive basic smartphone photography techniques with utilise AI features that have been is on the device. Material training will include basic composition such as rule of thirds, leading lines, and framing, as well as utilization lighting natural and angle taking image. In addition, the aspect crucial which will become the main focus is how AI can used as creative tools. For example, we will teach method use AI features for introduction subject, automatic exposure adjustment, and enhancement quality image (image enhancement) smart. This training will also touch on use application AI- based photo editing on smartphones for stage post-production. With thus, the focus of devotion No only on technical taking picture, but also on process creative editing. Main target we is change method view child young towards smartphones, from just tool communication become a productive medium for express and create, so that skills visual they can grow in a way significant and sustainable so that results the photo that produced own mark art and have mark sell.

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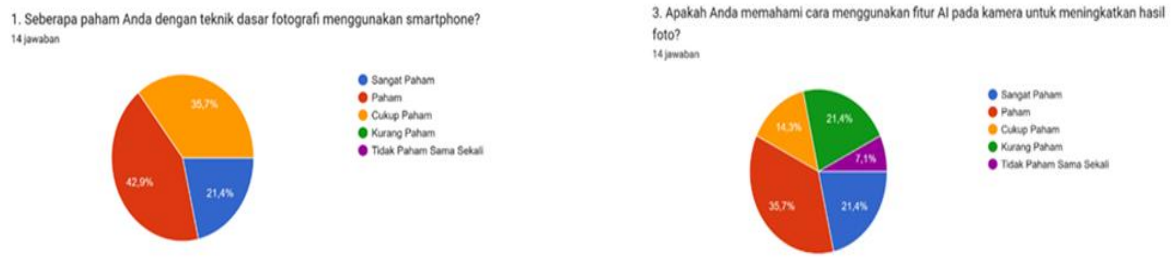

(a) (b)

FIGURE 1. Pretest results

Objective the main point of this service is increase creativity and skills smartphone photography on child young through approach innovative educational. In a way specifically, this devotion aims to to increase understanding technical child young about basic photography techniques such as composition, lighting, and angle, which are often ignored moment using a smartphone automatic. Second, introduce and train participant in use AI features on smartphone camera and apps editing for increase quality as well as mark artistic of the resulting photos. Third, growing trust self child young in express through the visual medium, which is on Finally can push they for make works original. Fourth, equip participant with skills relevant practices in the digital era, such as ability create visual content for social media or portfolio personal. With reach these goals, this devotion is expected can give impact term long, making child young more productive, creative, and ready face challenges in an increasingly digital future.

METHOD

In activity this writer's devotion use method mixed methods, namely combination of quantitative and qualitative as well as mentoring and training. Methods qualitative with provide mentoring and training, with several stages of implementation, namely observation, preparation of materials and tools, training, then evaluation with the concepts learned (Sandi & Salamah, 2024). As well as method quantitative focused on number and statistics. Purpose is for measure variable, testing hypothesis, and see the relationship between variables. This combination provides more valid and holistic data.

This community service was carried out face-to-face at Garut State High School 8, located on Jl. Raya Cilawu Pasanggrahan No. 181, Pasanggrahan, Cilawu District, Garut Regency, West Java 44181. This community service involved 20 male and female students of SMA Negeri 8 Garut from various extracurricular activities, which aimed to overcome the problems described previously.

FIGURE 2. Implementation flow

Explanation about channel implementation devotion:

- Observation is defined as observation activities regarding the object or main problem. Thus, the method of observation can be interpreted as learning in observe object or the problem being

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researched. This observation can be done through the media or the environment around. (Pujiyanto, 2021). Therefore, in active devotion to this society, the author does interview directly with the party school to get accurate information and data to become observation to students of SMAN 8 Garut to improve the creativity of young people in the field of smartphone photography with the utilization of AI. The goal For identify and map level understanding, as well as to educate related smartphone photography and the use of AI.

- Preparation materials and tools, including compilation material, comprehensive training (topics, directions, and practical), and provision of all equipment required for practice sessions. The goal for ensure readiness logistics and substantive material before training.
- Stage three is an activity training incentive for one day. Participants were given material about smartphone photography with the utilization of AI features, followed by the practice of taking pictures directly in the field with guidance and direction from the team implementer.
- Evaluation is a component of process learning and can be separated from activity teaching. In context education, implementation evaluation own very important role important Because functioning as an instrument or process for measuring the extent to which students has reach success in the control material taught or the material presented. Therefore, evaluation ensures that objective learning can be measured with precision and conviction (Lubis, 2019). This evaluation was carried out on end of the session with the request participant fill in a questionnaire covering achievement indicators of the goal. Emphasized that an improvement mark will only be recorded if the participant has filled in a survey of at least 80% of the total questions (Rohaendi & Salamah, 2023).

RESULTS AND DISCUSSION

This section presents and analyzes the results of the Community Service (PKM) activity in the form of Increasing Digital Creativity of SMA Negeri 8 Garut Students through AI Photography, which was carried out on February 1, 2025. This analysis focuses on the interpretation of achievements based on questionnaire findings, practical results, and influencing factors.

Session 1 Participants were given several materials that had been prepared by the author including the definition of photography, types of cameras from analog cameras to digital cameras and smartphone cameras, the definition of the exposure triangle, the application of composition in photography, taking pictures based on camera angles, types or genres of photography, news photo shooting procedures, the use of 5W + 1H, photo editing, and an introduction to editing applications. Not only that, but participants were also given material on the use of AI as a medium to develop the creativity and skills of young people. aims to build a strong theoretical foundation before practice

FIGURE 3. Percentage of material

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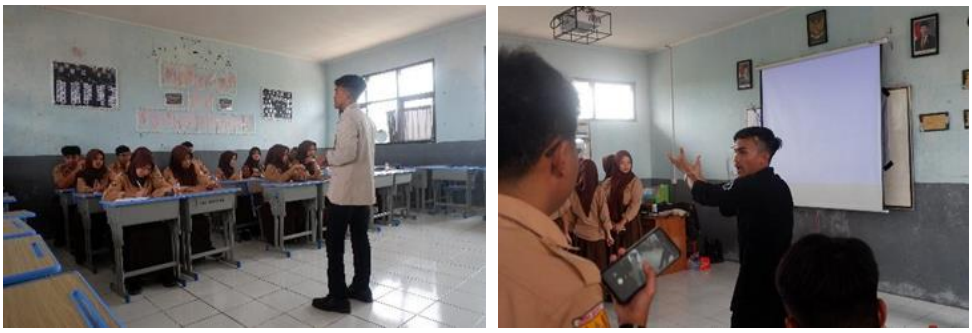

FIGURE 4. Q&A session and group division

Session 2 On this stage where all participant focused on mentoring and practice, where the participants who have shared into 2 groups on session both will practice and implement material that has been delivered by writer. In participant practice stage taught about use lighting with tool simple, product photos with tool simple, and taking pictures in nature open with AI -based, the use of AI in process editing, and roles Ai as reference in photography after that participants will make story in the photo so that can produce quality photos tall and have mark sell.

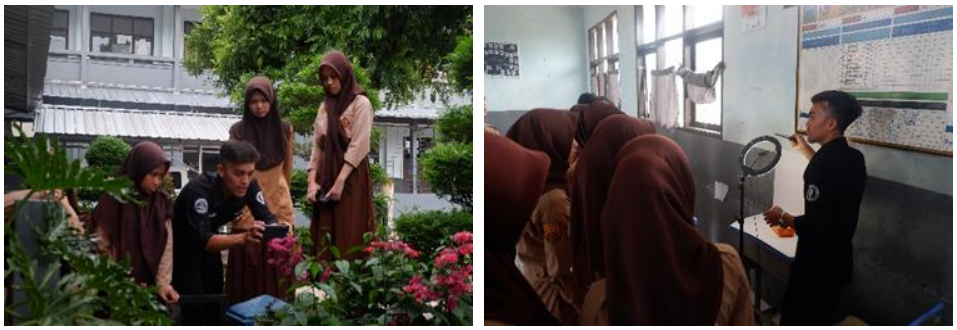

FIGURE 5. Practice session

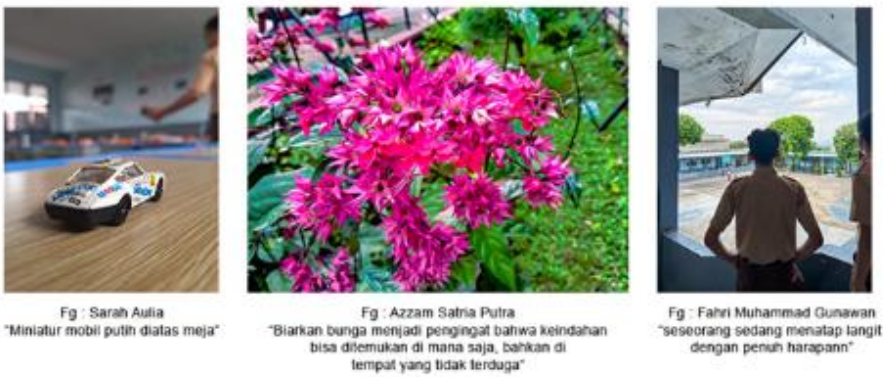

FIGURE 6. Participants' work

Session 3 Where review, evaluation, and closing. The results of the practice that was done by the participants, which was attended directly by the supervisor of the photography extracurricular of SMA Negeri 8 Garut. After the photo review, the work produced showed that the participants were able to apply the basic principles of composition and the use of light. However, the post-practice evaluation and posttest as a whole concluded that the deepening of the aspects of manual camera settings (pro-mode) and low-light techniques still needs improvement in the future.

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FIGURE 7. Evaluation and closing

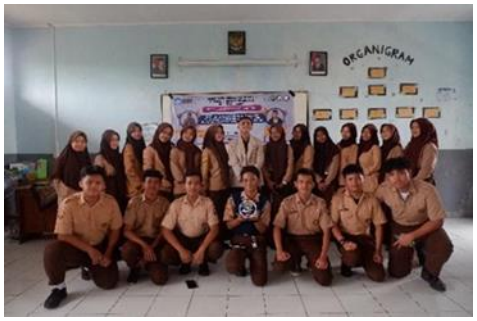
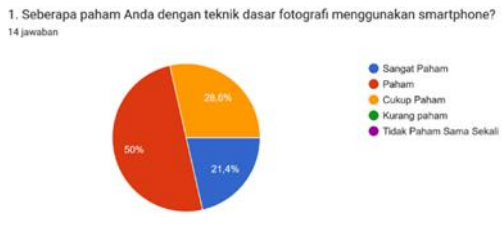


FIGURE 8. Group photo

Implementation training is influenced by various factors, both supporting factors and inhibiting factors. One of the supporting factors that causes activity walk fluently is a positive response from various parties involved in the process, devotion, and enthusiasm from participants who provide motivation addition for finish the task and lectures. On the side, other inhibiting factors is lack of team, the speaker who delivered the presentation regarding material about Artificial Intelligence, and stages practical work due to time. In the stage implementation writer is only given time One day by the party school.



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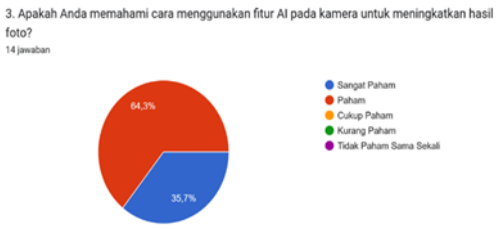

(b)

FIGURE 9. Post-test results

Evaluation results posttest show that of the 20 students who attended, only 14 filled out the questionnaire, indicating that 50% of participants understood, 26.6% understood enough, and 21% really understood the basic techniques of photography using smartphones. Then the second question, 64.3% understood, 35.7% really understood about the use of AI features on cameras to improve the quality of photo results. Overall, this training succeeded in becoming an initial provision for developing students' economic potential in the field of photography, even though the in-depth study on the aspects of manual camera settings and low-level techniques for lighting still needs improvement in the future.

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CONCLUSION

Activity Devotion to Community (PKM) in the form of Improvement Digital Creativity of Students of State Senior High School 8 Garut through AI Photography on 20 students of SMA Negeri 8 Garut proven effective as a catalyst for digital creativity. Results evaluation show majority of participants get a good understanding of basic photography techniques (composition and angles), with the adoption of AI understanding reaches 100%. This achievement confirms that AI integration is key acceleration creativity of young in producing high-quality and very efficient. This training has been given authorized capital for participant for develop economic potential in the field of content creation. Although this, the constraints execution time is only 1 day, limiting the deepening aspect, technically important, like arranging the camera manual and low techniques for lighting. Therefore, the initiative's future services must focused in the advanced program which discusses AI generative, content branding, and mastery of professional photography techniques in a way explicit, to ensure skills student reach a competitive and sustainable.

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