



## Leveraging Artificial Intelligence Tools for Sustainable Entrepreneurship Skills in Clothing and Textile Education: A Study of Vocational Education Institutions in Lagos State, Nigeria.

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**Abstract.** Leveraging artificial intelligence (AI) tools for sustainable entrepreneurship skills in clothing and textile education was a study of vocational institutions in Lagos state, Nigeria. Conducted among 225 respondents from three (3) tertiary institutions offering clothing and textile as a course. Two research questions and two (2) hypothesis guided the study, it was a descriptive survey design, and the instrument for the data collected was a structure questionnaire containing 29 questions which was further subjected to face validity by three experts. The data was analyzed using, mean, Chi square and Friedman's test. The result revealed that 225(100%) of the respondent answered yes, student are trained in practical skills, 150(66.7%) answered yes, vocational students are equipped with digital skills, 210(93.3%) answered yes, harmful practice to the environment is taught, 210 (93.3%) answered yes, clothing and textiles is a sustainable entrepreneurship education. 205 (91.1%) answered yes, teachers are using creative methods for student, 160 (71.1%) answered yes, one of these methods is using (AI). Majority 175(77.8%) answered yes, AI is used for fashion designing. 160 (71.1%) answered yes AI tools are used to forecast. Majority 130(57.8%) yes AI is used to enhance supply chain. Majority 180(80%) answered yes AI is a tool for sustainable entrepreneurship education skills in clothing and textiles. In conclusion AI tools has insignificantly contributed to sustainable entrepreneurship in clothing and textiles. It is recommended that students need to be properly trained and equipped in handling these tools by teachers to be prepared for the job market.

**Keywords:** Artificial Intelligence Tools, Clothing and Textiles Education, Entrepreneurship Skills, Leveraging, Sustainable.

### 1. Introduction

Artificial Intelligence (AI), is defined as the theory and development of computer system capable of doing tasks ordinarily requiring human intelligence such as visual perception, speech recognition, decision making, and translation (Monica, Alok, & Samridhi, 2022). Learning from experience and adapting to new situations, it uses complex algorithms, and mathematical models to process large amounts of data and extract meaningful patterns and insights, which allow them to improve their performance overtime, (Bravo, & Iturralde, 2024). Artificial intelligence (AI) and its field are strong tools for enhancing performance and productivity in textile and fashion, starting from design concepts to forecasting of upcoming trends, faults detection, quality and colour assessment of textiles, concepts and design, production logistics and distribution, retail and fashion forecasting, (Hassan, Mumtaz & Hafsa, 2024, Sathish, Muthuvelamman & Jayachandra, 2024). Clothing and textiles which is the study of garment and fabric explores the history, design, production, and cultural significance of clothing and textiles to include materials-fibers, yarns, fabrics, process of weaving, knitting, sewing, social and historical contents of clothing and textile and bridges the gap between practical craft and academic inquiry (Azonuche, 2024, Melissa, Flavia & Barbara, 2024). It is a vocational or entrepreneurial subject that equip student, with practical skills application to various jobs in the fashion and textile industry, resulting in self-reliance

and entrepreneurship. It focuses on hands-on training and preparing students for careers in tailoring, garment construction and design in these fields. The curriculum often includes elements relevant to current fashion and textile industry, such as digital design and sustainable practices, also incorporates elements of business and marketing, further supporting students who wish to start their own ventures, (Azonuche & Abamba, 2024, Jane, James & Joanna, 2024). Entrepreneurship education can be formal, non-formal or informal and helps increase entrepreneurship intentions and activities, improve business performance, enhance employability, social and economic development (Desousa, Daniel, & Edsom, 2024, Heliona & Jonida, 2023, Jomon & Sreeramana, 2023, Joern, Jantje & Helle, 2023). The emergence of new digital technologies has revolutionized education beyond the advancement of technology. Education no longer relies on traditional methods but technology to change the way of learning. This integration of technology focuses on improving learners' capabilities beyond simply mastering skills. Teachers are exploring more creative and differentiated methods to provide students with richer curriculum and learning experiences. (Jooyound & Sungeun, 2024, Azonuche & Abamba, 2024, Jane, James, & Joanna, 2024). In clothing and textiles, the introduction of technology such as Artificial Intelligence (AI) is making would be entrepreneur to make her business sustainable. Sustainability is the present needs without enlarging the need of future generations by safe guarding the natural environment and social well-being, making sure that, the economic and development does not pose a threat to the well-being and environment, (Paola & Chiara, 2024, Leo, Francklin, Anna & Edumudo, 2023). The fashion industry often falls short of sustainability, with the advancement of technology, there are a wide-range of AI tools to address these issues, among would be practitioners. (Hiqmal, Rebecca, Julia, Saniyat, Georgia & Azadeh, 2025, Jo & Charlene, 2024, Paola & Chiara, 2024). AI offers innovative solutions by improving design process using enabled tools instead of manual to create clothing designs. Tools such as Abode, Mid-journey, DALL. E, to co-create mood boards, sketches and even full outfit designs in real time collaboration in ideation for designers to explore while maintaining creative control, automated generation of ten packs, color ways and 3D prototypes which helps the acceleration of the journey from sketch to sample (Cem 2025, Oleksandra, 2025, Bravo & Iturralde, 2024). AI, tools is used in predictive analytics to forecast consumer demand, this helps to prevent overstocking, thereby reducing waste. Machine learning (ML) is an AI tool used forecasting fashion trends, for historical data identification of patterns to

predict future trends for natural language processing (NLP), to analyse data such as articles reviews and social media post. The computer vision of algorithms is used to analyze images and videos and can identify visuals like colours, shapes, and silhouettes. All these are powered by AI tools and platforms such as Trendalytics, Heuritech, Stylumia, WGSN, Geostyle, Designoval, Exploding Topics and Brandwatch (Cem, 2025, Arisekola, 2025, Hiqmat et al, 2025, Leo et al, 2023, Mengyun, Cali, Pinyi, & Menglin 2021). AI, improves fashion retail by processing large volumes of financial and transactional data, generating accurate invoices without the need for manual intervention. Linking online and offline behavior enabling a seamless Omni-channel experience. Tools such as Stampli and Expensify for document processing, automate invoice processing, expense tracking and payment work flow. Data rails and planful AI, for financial reporting, SAP predictive Analytics and tools like Alteryx for identification of fraud, Data Robot and Zest AI for strategic decision-making forecast. Personal finance assistant tools are chat GPT, and Gemini (Anurag, & Kusum, Miguel, 2025, Joan, 2025, Cem, 2025, Oleksandra, 2024). AI, algorithms and data analytics have been integrated in design by collecting and analyzing historical data from various sources including social media platforms, fashion blogs, and e-commerce platforms, to analyze text, image and video data simultaneously such as, fashion shows footage, Tik-Tok content, customer reviews, shapes of garment or material, displaying customer sentiments and emerging designs using dash-board (Cem, 2025, Sathish, Muthivelammai & Jayachanchan, 2024, De Souse et al, 2024). AI, has been used in error-prone tasks in garment manufacturing through robotics to improve work load safety and also to enhance supply chain management, by tracking materials and inventory, analyze logistics, data, improve collaboration and monitor compliance with sustainability standards. (Muhammad, Mehmet, & Hassnian 2025, Cem, 2025, Bravo & Iturralde, 2024). There is also virtual influencers generated by AI, for fashion marketing and digital storytelling with brands creating custom avatars to represent niche customer personas as using 3D modeling, using platforms like Tik-tok, Instagram and snap-chat, Avatars can be tailored to align with campaign themes and customer expectations (Hiqmat, 2025, Cem, 2025 2025, Bharati, 2023). Emotion AI, in fashion also known as effective computing, recognize customer emotion via, web-cam or App to detect micro expressions or voice tone with consent to interpret emotional state, such as excitement, confusion or frustration. Based on these, AI recommends fashion pieces like bold colours when happy, cozy styles when anxious, using a trained psychological style mapping.

Chat-bot can be used to input and analyze conversations to infer-mood and style preferences which has been used by researchers to develop virtual reality (VR) fashion show to analyze participant's facial expressions and physiological responses during (VR) virtual reality catwalk to provide their emotional reactions. This depended customer connection and refine marketing strategies (Cem, 2025, Omid, 2025, Hassan, et al 2024, Leo et al, 2023, Monica, et al, 2022).

AI tools that monitor social media include feed Hive for content and conditional posting, Buffer Tailors posts to each channel, Predis.Ai, generates carousels, Publer generates post, text and images. Content studio helps entrepreneurs stay on top of content topics and Hoot suite for varieties of AI post prompt while story chief creates content and multiple channels and flick for a social media AI copilot (Mighel, 2025, Arisekola, 2025, Omid, 2025). There is AI driven smart clothing that monitors the health and the environment for patients which detects pollutants and update patients about exposure to pollutants giving them real time insights to personal air quality. AI tools in smart clothing include Zyler and Vue.Ai, Zalando's generative Ai, Ai-powered fitness trackers and smart watches, helps to adjust insulation or ventilation in response to temperature changes, monitor signs by providing valuable health insights, used in sports and rehabilitation, control fabric colour based on environment. Ai-driven tools like Khroma, New Arc.ai, and Zmo.ai and Ai-powered outfit, Planners such as Glance Ai, style DNA. The new Black and smart closet provide outfit suggestion and personalized style insight (Anurag et al, 2025, Amara, 2024, Oleksandra, 2024). Ai system is now being used to create experiences that cater for individual preference fostering customer engagement and loyalty using smart mirrors and fitting-rooms which offers suggestions on alternative sizes, colors, styling tips based on customer interactions, craft personalized e-mail, customers' unique styles, past preferences or purchases. The virtual try on technology using Augmented Reality (AR) allows customer to digitally try-on clothes, make-up and other products to inform decisions, reducing return, increase sales and enhance brand loyalty. (Cem, 2025, Sathish, et al, 2024, Oleksandra, 2024). AI is used to power circular fashion platforms and second-hand fashion platforms for the detection of signs of wear, pilling, stains, and stretched seams from up loaded images to reduce manual quality checks and ensure consistency, classification by brands, category, size, style and trend. This helps to adjust prices to optimize resale speed and margin, also enhance photo quality by correcting colors to boost engagement (Hiqmat et al

2025, Cem, 2025, Jane, James & Joana, 2022). Ai tools for second hand platforms include, style chat-box, GPT-5 and a computer model that recognize brands styles and aesthetics across web's vintage resale sites. Second hand clothing is being reshaped and marketed with tools like prime Ai, Photo-shoot, prime Ai, size and fit finder as well as Zyler virtual try-on. They enable seamless personalized and eco-friendly shopping experiences for clothing and textile student would entrepreneurs in circular fashion. (Miguel, 2025, Omid, 2025, Joan, 2025, Svetlana, 2020). Ai, when used to advertise ensures the advertisement gets the most relevant audience, increasing changes in conversion. These tools include Cray O for short form videos, brand well for generating SEO (search engine optimization) blog posts, originality Ai for AI content detection, Brand 24 for media monitoring, influency for influencer marketing, Notion AI for productivity, Gum loop for best AI automations and many more (Omid 2025, Okorie, 2025, Victoria 2025, Jo & Charlene, 2024, Paola et al, 2024, Monica et al, 2022). Clothing and textile education landscape is evolving with the integration of artificial intelligence which has emerged as a transformative force, reshaping the traditional paradigms of product development and has given rise to a new era where data driven insights, predictive analytics and innovative applications of AI are revolutionizing the way garment are conceived, designed and brought to market helping to reshape the creative and logistics aspects of an industry that thrives on innovation and trends (Oleksandra, 2024, Bharati, 2023, Woojin, et al, 2023). Ai has significantly contribute to sustainable entrepreneurship in the clothing and textile education, by optimizing processes, reducing waste, returns and enabling more sustainable practices throughout the value chain (Muhammad et al, 2025, Cem, 2025, Paola et al, 2024, Leo et al, 2023).

### **1.1 Statement of the Problem.**

The increasing adoption of Artificial Intelligence (AI) in the clothing and textiles industry has created new opportunities for innovation, sustainability, and entrepreneurship. However, many vocational education institutions in Lagos State, Nigeria, have not fully integrated AI tools into Clothing and Textiles Education, limiting students' ability to develop relevant entrepreneurial skills for the modern fashion industry. Despite the potential of AI to enhance creativity, productivity, and sustainable business practices, there is limited research on its use in developing sustainable entrepreneurship skills among clothing and textiles students. Therefore, this study seeks to examine how AI tools can be leveraged to

promote sustainable entrepreneurship skills among students in vocational education institutions in Lagos State, Nigeria.

## 1.2 Objective of the Study

The main objective of the study was Leveraging Artificial Intelligence (AI) tools for entrepreneurship skills in clothing and textile education: A study of vocational education institution in Lagos state, Nigeria. Therefore, the following objective were formulated to:

- Examine clothing and textile skills as entrepreneurship education in vocational institutions.
- Examine Artificial Intelligence (AI) tools for sustainable entrepreneurship skills in clothing and textile education in vocational institution.

## 1.3 Research Questions

- What are the clothing and textile skills as entrepreneurship education in vocational institutions?
- What are the Artificial Intelligence (AI) tools for sustainable entrepreneurship skills in clothing and textile education in vocational institutions?

## 1.4 Research Hypothesis

Hypothesis 1: There is no significant entrepreneurship education skill for clothing and textiles in vocational institutions in Lagos state, Nigeria

Hypothesis 2: There is no Artificial Intelligence (AI) tool for sustainable entrepreneurship skills in clothing and textiles education in vocational institutions in Lagos state, Nigeria

## 2. Research Methodology

**Design of the Study:** Descriptive survey research design was adopted to enable the respondents go through the questionnaire to give their personal opinions about the problem being investigated.

**Area of the Study:** The area of the study was Lagos state, Lagos state University of Education, Otto/Ijanikin, Lagos University, Akoka, Yaba College of Technology, Yaba, and Federal College of Education (Technical) Akoka.

**Population of the Study:** The population of the study constituted 225 respondents. 70 from Lagos State University of Education, 50 from Lagos University, Akoka, Yaba College of Technology, 80, Federal College of Education (Technical) Akoka, 25.

**Instrument for Data Collection:** A structured questionnaire was used for data collection titled: Leveraging Artificial intelligence tools for sustainable entrepreneurship skills in clothing and textile education. The first part contained demographic information of respondents while the second part with two sections containing 11 question items for respondents based on specific objectives. Table one had 11 questions on entrepreneurship skills in clothing and textiles as a vocational education, table II had 18 questions on artificial intelligence tools for sustainable entrepreneurship skills in clothing and textile as a vocational education.

**Validity and Reliability of the instrument:** The instrument was given face validity by three (3) clothing and textile lecturers. Their constructive corrections were effected and test retest was used to determine the reliability and consistency of the instrument. This shows that the instrument was valid and reliable.

**Method of Data Collection:** The questionnaire was administered to 225 respondents with the help of Google form through their class platforms.

### 3. Method of Data Analysis

Data were analyzed with mean and chi-square from the Friedman’s test. The results are presented below.

**Hypothesis 1:** There is no significant entrepreneurship education skill for clothing and textiles in vocational institutions in Lagos state, Nigeria

**Table 1:** Entrepreneurship Education Skills for Clothing and Textiles in Vocational Institutions

S/N	Statement (n=225)	Yes (%)	No (%)	Mean Rank	$\chi^2$ (p-value)
1	Clothing and textiles is a vocational education	225(100)	0(0)	6.61	83.264*
2	Clothing and textile students are trained in practical skills	225(100)	0(0)	6.61	(<0.001)
3	Trained how to construct garment	210(93.3)	15(6.7)	6.24	
4	Pattern drafting skills is one of the skills you are equipped with	205(91.1)	20(8.9)	6.12	
5	As a vocational student you are equipped with digital skills	150(66.7)	75(33.3)	4.78	
6	Technology has been adopted as a skill in clothing and textile	195(86.7)	30(13.3)	5.88	
7	You are taught how to run a successful fashion business	185(82.2)	40(17.8)	5.63	
8	Harmful practice to the environment is one of the skills taught in clothing and textile	210(93.3)	15(6.7)	6.24	
9	Clothing and textile skills were formerly done manually	170(75.6)	55(24.4)	5.27	
10	Clothing and textile is a sustainable entrepreneurship education	210(93.3)	15(6.7)	6.24	
11	Clothing and textiles students can be self-employed	215(95.6)	10(4.4)	6.37	

\* Significant at 5% level

The chi-square value ( $\chi^2 = 83.264$ ,  $p < 0.001$ ) from the Friedman’s test infers that there are significant entrepreneurship education skills for clothing and textiles in vocational institutions in Lagos state, Nigeria ( $p < 0.05$ ) which are garment construction skills, digital skills, how to run a successful fashion business, and harmful practice to the environment.

**Hypothesis 2:** There is no Artificial Intelligence (AI) tool for sustainable entrepreneurship skills in clothing and textiles education in vocational institutions in Lagos state, Nigeria

**Table 2:** Artificial Intelligence (AI) tools for sustainable entrepreneurship skills in clothing and textiles education

S/N	Statement (n=225)	Yes (%)	No (%)	Mean Rank	$\chi^2$ (p-value)
1	Teachers of clothing and textiles are using creative methods for students	205(91.1)	20(8.9)	11.10	275.920* (<0.001)
2	One of these methods is using artificial intelligence (AI)	160(71.1)	65(28.9)	10.70	
3	There is AI tool for measurements taking	75(33.3)	150(66.7)	7.70	
4	AI tool is used for fashion designing	175(77.8)	50(22.2)	11.30	
5	Are you aware that there are virtual try-ons technology for clothing and textile	135(60)	90(40)	9.70	
6	AI tools are used to forecast customers' demands	160(71.1)	65(28.9)	10.70	
7	Use AI tools for second hand platforms to identify trends in class	180(80)	45(20)	11.50	
8	Use AI tools as virtual influencers for fashion marketing	165(73.3)	60(26.7)	10.90	
9	AI tools are used to analyze data for clothing and textile class	65(28.9)	160(71.1)	6.90	
10	Content management in clothing and textiles classes are done using AI tools	45(20)	180(80)	6.10	
11	Aware there are AI- driven tools for smart clothing as a clothing and textiles student.	135(60)	90(40)	9.70	
12	Aware also, there are AI tools for advertising clothing and textile	75(33.3)	150(66.7)	7.70	
13	Use AI tools for design garments using customers emotions during classes	110(48.9)	115(51.1)	8.70	
14	Use AI for fashion shows in school	50(22.2)	175(77.8)	6.30	
15	There is AI tool to enhance supply chain	130(57.8)	95(42.2)	9.70	
16	Using AI tool will make clothing and textiles as a vocational education more efficient	175(77.8)	50(22.2)	11.70	
17	The fashion industry in which clothing and textiles belong has been blamed for unsustainability practices	120(53.3)	105(46.7)	9.10	
18	AI is a tool for sustainable entrepreneurship education skills in clothing and textiles	180(80)	45(20)	11.50	

\* Significant at 5% level

The chi-square value ( $\chi^2 = 275.920$ ,  $p < 0.001$ ) from the Friedman's test deduces that there are significant Artificial Intelligence (AI) tools for sustainable entrepreneurship skills in clothing and textiles education in vocational institutions in Lagos state, Nigeria ( $p < 0.05$ ). These tools include: virtual try-ons technology for clothing and textile, forecasting customers' demands tool, second hand platforms to identify trends tool, virtual influencers for fashion marketing tool, smart clothing tool, and supply chain tool.

#### 4. Discussion of Findings

Table I was on entrepreneurship education skills for clothing and textiles in vocational institutions in Lagos state. The table reveal that all respondents, 225 (100%) answered yes, clothing and textile is a vocational education. This is in line with, (Azonuche, 2024, Melissa, et al, 2024). 225 (100%), answered yes, clothing and textile students are trained in practical skills, as opined by (Azonuche, et al, 2024, Jane et al, 2024). 210 (93.3%) answered yes, they are trained on how to construct garments, 15 (6.7%) answered no. As supported by (Azonuche, et al, 2024, Jane et al. 2024). 205 (91.1%) answered yes, they are equipped with pattern drafting skills, 20 (8.9%) answered no, as supported by Azonuche, 2024, Melissa et al, 2024). 150 (66.7%) answered yes, as vocational students they are equipped with digital skills, 75 (33.3%) answered no. This is in line with (Hassan et al, 2024, Sathish et al, 2024). 195 (86.7) answered yes, technology has been adopted as a skill in clothing and textile, 30 (13.3) answered no. As observed by, (Cem, 2025, Oleksandra, 2026, Jooyound, et al 2024). 185 (82.2) answered yes they are taught how to run a successful fashion business, 40 (17.8) answered no. As opined by (De Sousa et al, 2024, Heliona, et al, 2023, Jomon, et al, 2023, Joern et al, 2023). 210 (93.3) answered yes, harmful practices to the environment is one of the skills taught in clothing and textiles, 15 (6.7) answered no. As noted by, (Azonuche, et al, 2024, Jane et al, 2024, Paola, et al, 2024 Leo, et al, 2023). 170 (75.6) answered yes, clothing and textile skills were formerly done manually, 55 (24.4) answered no, this is in line with, (Jooyound, et al 2024) 210 (93.3) answered yes, clothing and textile is a sustainable entrepreneurship education, 15 (6.7) answered no. As Supported by, (De Sousa et al, 2024, Heliona, et al 2023, Jomon, et al, 2023, Joern et al. 2023). 215 (95.6) answered yes, clothing and textiles students can be self-employed, 10 (4.4) answered yes, as observed by (Azonuche, 2024, Melissa, et al, 2024, Jane, et al, 2024).

Table II was on artificial Intelligence (AI) tools for sustainable entrepreneurship skills in clothing and

textile education in vocational school. The table reveal that out of 225 respondents; 205 (91.1) answered yes, teachers of clothing and textiles are using creative methods for students 20 (8.9) answered no. As supported by (Jooyound, et al 2024, Azonuche, et al, 2024, Jane, et al, 2024). 160 (71.1) answered yes, one of those methods is using artificial intelligence tools. 65 (28.9) answered no. As opined by (Paolo, et al, 2024, Bravo, et al, 2024, Leo et al, 2023), 75 (33.3) answered, yes there is AI tool for measurements taking, 150 (66.7) answered no. Contrary to (Miguel, 2025, Omid, 2025, Joan, 2025, Svetlana, 2020). 175 (77.8) answered yes, AI tool is used for fashion designing, 50 (22.2) answered no. As noted by (Cem, 2025, Oleksandra, 2024, Bravo, et al 2024). 135 (60) answered yes, they are aware there are Virtual – try-ons technology for clothing and textiles, 90 (40) answered no. As noted by (Cem, 2025, Sathish, et al, 2024, Oleksandra, 2024). 160 (71.7) answered yes, AI tools are used to forecast customers demand, 65 (28.9) answered no. This is in line with (Anurag, et al, 2025, Miguel, 2025, Joan, 2025, Cem, 2025, Oleksandra, 2024), 180 (80) answered yes, they have used AI tools for second hand platforms to identify trends, 45 (20) answered no. As observed by (Hiqmat et al, 2025, Cem, 2025 Miguel, 2025, Omid, 2025). 165 (73.3) answered yes, they use AI tools as virtual influencers for fashion marketing, 60 (26.7) answered no. This is in line with (Higmat, 2025, Cem, 2025, Bharati, 2023). 65 (28.9) answered yes, AI tools are used to analyze data for clothing and textile class 160 (71.1) answered no, contrary to (Cem, 2025, Arisekola, 2025, Higmat et al, 2025, Leo et al, 2025). 45 (20) answered yes, content management in clothing and textiles classes are done using AI tools, 180 (80) answered no. This is contrary to (Cem, 2025, Sathish, et al, 2024 De Sousa, et al 2024). 135 (60) answered yes they are aware, there are AI-driven tools for smart clothing as a clothing and textile student, 90 (40) answered no. As observed by (Anurag, et al, 2025, Amara, 2024, Oleksandra, 2024). 75 (33.3) answered yes, they are aware, there are AI tools for advertising clothing and textiles. 150 (66.7) answered no. Contrary to (Omid, 2025, Okorie, 2025, Paola, et al, 2024, Monica et al, 2022), 110 (48.9) answered yes, they use AI tools for designing garments using Customers emotions during classes. 115(51.1) answered no. Contrary to (Gen, 2025, Omid, 2025, Hassan et al, 2024, Leo et al, 2023, Monica et al, 2020), 50(22.2) answered yes, AI is used for fashion shows in their school. 175(77.8) answered no. Contrary to (Cem, 2025, Sathish, 2024, De Sousa et al, 2024). 130 (57.8) answered yes, there is AI tool to enhance supply chain, 95 (42.2) answered no. As supported by (Muhammad et al, 2025, Cem, 2025, Bravo and Iturradle, 2024). 175 (77.8) answered yes using AI tool will make clothing and textiles as a

vocational education more efficient, 50 (22.2) answered no. As opined by (Oleksandra2024, Bharati, 2023, Woojin et al, 2023). 120 (53.3) answered yes, the fashion industry in which clothing and textiles belong has been blamed for unsustainability practices, 105(46.7) answered no. In line with (Hiqmat et al, 2025, Jo and Charlene, 2024, Paola, et al 2024). 180 (80) answered yes, AI is a tool for sustainable entrepreneurship education skills in clothing and textiles, 45 (20) answered no, as supported by (Muhammad et al, 2025, Cem, 2025, Bravo and Iturrade, 2024, Leo et al, 2023).

## 5. Conclusion

Student of clothing and textiles are trained in various entrepreneurial skills. The introduction of technology like (AI) Artificial intelligence has made the training seamless, making clothing and textile efficient and sustainable as a vocational course.

## 6. Recommendations

From the findings students should be:

- Properly trained in the use of the tools before venturing into the world of work
- Trained personnel's to be employed by the institutions to equip students in AI tools to be able to leverage Artificial Intelligence tools for sustainable entrepreneurship skills in clothing and textile.

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