



Starter Kit for Ethical AI

# Practical Applications of AI Guide

[www.valuesai.eu](http://www.valuesai.eu)



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## Introducing the VALUES Project

The **VALUES project** is a forward-thinking initiative aimed at empowering young people across Europe by providing them with the essential skills and ethical understanding needed to navigate the rapidly developing world of artificial intelligence (AI). As AI technologies become an integral part of everyday life, it is essential for youth to not only acquire technical knowledge but also to develop a strong awareness of the ethical considerations surrounding AI. The project's core objective is to equip young people, particularly those facing employment challenges, with the knowledge and tools to critically evaluate AI technologies, ensuring they can engage with these systems responsibly. By fostering a deeper understanding of AI ethics, the VALUES project aims to prepare young people to become responsible digital citizens and ethical innovators, ready to contribute positively to the digital economy. The anticipated outcomes include increased AI literacy, a more ethical approach to technology use, and enhanced employment opportunities in the growing AI sector.

### ***What is the VALUES Starter Kit for Ethical AI?***

*The **VALUES Starter Kit for Ethical AI** is your gateway to exploring the fascinating and essential world of ethical AI. Designed for youth workers and educators, this dynamic resource offers you the tools to dive into the complexities of AI, from its core principles to the ethical dilemmas it presents. Packed with real-world examples, practical strategies, and*

*engaging activities, this kit will help you spark meaningful discussions with young people about the impact of AI on their lives. Whether you're introducing AI for the first time or guiding young people through its ethical implications, this Starter Kit will empower you to teach with confidence and ignite curiosity about the responsible use of AI in today's world.*

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# 01

## INTRODUCTION TO AI IN YOUTH WORK



# Introduction to AI in Youth Work

## *Overview of AI's Role in Education and Youth Work*

Artificial Intelligence (AI) is rapidly transforming how we work, live, and learn, and its potential in education is vast. From creating personalised learning experiences to providing real-time insights into student performance, AI is reshaping traditional educational practices. As youth workers, educators, and trainers, it's essential to understand AI's role and how it can enhance the youth work environment.

AI in education refers to the use of algorithms, data, and automation to improve learning outcomes, streamline administrative tasks, and foster innovation. In youth work, AI tools can offer personalised learning experiences, support accessibility, and promote creativity. These benefits help youth workers focus on the core aspects of their work—guiding, mentoring, and empowering young people—while AI takes care of time-consuming administrative tasks.

Some AI tools allow for adaptive learning systems, where the content and pace adjust based on the learner's progress. This ensures that every individual, whether struggling or excelling, receives a learning experience tailored to their needs. For youth workers, AI can be an invaluable resource in developing lesson plans, tracking student progress, and identifying areas where support is needed.

In addition to personalising learning, AI also opens doors to innovative, creative possibilities. AI tools can help youth express themselves through art, music, and video, providing a new medium for creative exploration. With the right tools, youth workers can engage young people in exploring the intersection of technology and creativity, encouraging problem-solving, collaboration, and critical thinking.

Furthermore, AI has the potential to make education more inclusive. Tools designed for accessibility can assist youth with learning disabilities, language barriers, and other challenges, ensuring that all students have equal opportunities to succeed. For instance, AI can provide real-time translation for non-native speakers or read aloud text for students with dyslexia, helping them engage with the material in ways that work for them.

However, the integration of AI into youth work and education also raises important ethical considerations. As we introduce more AI-driven tools into classrooms and training sessions, it's crucial to instil a sense of responsibility in young people. They should not only learn how to use AI but also understand its ethical implications. Discussions around data privacy, algorithmic bias, and fairness should be part of the educational journey, helping young people develop critical thinking skills and become responsible digital citizens.

AI's role in education and youth work is evolving, and as technology advances, so too will its impact. By integrating AI thoughtfully and ethically, youth workers can enhance learning experiences, promote creativity, and ensure inclusivity, all while preparing young people for a future in a technology-driven world.

This chapter serves as an introduction to how AI can be utilised effectively in youth work and education. Throughout this guide, we'll explore specific AI tools that youth workers can implement in their day-to-day activities, making lesson planning more efficient, promoting creativity, enhancing accessibility, and fostering ethical conversations around AI.

# Introduction to AI in Youth Work

## *Importance of Integrating AI into Daily Practices*

Integrating Artificial Intelligence (AI) into the daily practices of youth work and education isn't just about adopting new technology—it's about enhancing the quality of education, making learning more personalised, efficient, and accessible, and preparing young people for the future. In a world where AI is increasingly present in all sectors, from healthcare to business, youth workers must embrace these tools to stay relevant and to equip young people with the skills they need to succeed in a rapidly evolving society.

### **Enhancing Personalisation and Engagement**

One of the greatest benefits of integrating AI into daily practices is the ability to offer personalised learning experiences. AI can adapt content and teaching methods to meet the specific needs of each learner, based on their individual strengths and weaknesses. For example, AI can analyse student responses to assess their knowledge gaps, automatically adjusting the difficulty of the material and offering additional support where needed. This ensures that all learners, whether they're struggling or excelling, can engage with the material at an appropriate level.

Youth workers can use AI tools to create custom lesson plans and activities that resonate with the individual interests and needs of their learners. Whether it's adjusting the pace of a lesson for a slower learner or challenging more advanced students with deeper content, AI ensures that no one is left behind, fostering a more inclusive learning environment.

### **Time-Saving and Efficiency**

AI can significantly reduce the time spent on administrative tasks, allowing youth workers to focus more on their interactions with young people. For example, AI tools can automate the creation of

quizzes, summaries, and lesson plans, saving valuable time. Platforms like [Google Classroom](#) and AI-powered quiz generators such as [Quillionz](#) help youth workers rapidly generate resources and track student performance, allowing for quicker adjustments to teaching strategies and ensuring lessons remain dynamic and relevant.

Moreover, AI can automate attendance tracking, data entry, and grading, reducing the administrative burden that often weighs on youth workers. This increased efficiency can free up more time for one-on-one mentoring, youth engagement, and problem-solving, which are essential components of effective youth work.

### **Fostering Critical Thinking and Creativity**

In addition to personalisation, AI can inspire creativity and critical thinking in young people. AI tools like [Runway ML](#) and [DeepDream Generator](#) allow students to experiment with creative projects such as artwork, music, and video creation, all with the support of AI. These tools can help youth discover their creative potential while gaining exposure to cutting-edge technology. By using AI to explore artistic expression, young people are able to blend technology with creativity, preparing them for future careers in industries like digital media, design, and technology.

Youth workers can also use AI to foster critical thinking about technology itself. Introducing young people to AI not only gives them the opportunity to learn how to use it but also enables them to consider its ethical implications, such as algorithmic bias and privacy issues. By involving young people in conversations about the responsible use of AI, youth workers can help them become not just consumers of technology, but informed, ethical creators and users of it.

# Introduction to AI in Youth Work

## *Importance of Integrating AI into Daily Practices*

### **Encouraging Inclusivity and Equal Opportunities**

AI has the potential to address longstanding barriers in education by making learning more accessible to everyone, including those with disabilities. Tools like [Microsoft's Immersive Reader](#) support students with dyslexia, while [Otter.ai](#) provides live transcriptions, helping students with hearing impairments fully participate in lessons. By integrating these AI tools into daily practices, youth workers can create a more inclusive environment, ensuring that all young people, regardless of their background or abilities, have an equal opportunity to learn and succeed.

For youth workers, the importance of integrating AI into daily practices also lies in preparing young people for the future workforce. As AI continues to shape industries across the globe, understanding and working with AI will be a fundamental skill. Equipping young people with AI literacy—whether through hands-on experiences with AI tools or discussions about its societal impact—ensures they are not only ready for the careers of today but also the opportunities of tomorrow.

### **Ethical Considerations and Responsible Use**

As youth workers integrate AI into their daily practices, it's crucial to consider the ethical implications of using such technology. AI can bring about positive change, but it also raises concerns about data privacy, bias, and fairness. Therefore, it's essential to not only teach young people how to use AI but also how to critically evaluate its ethical dimensions. Introducing AI in a responsible and thoughtful way ensures that young people understand the impact technology has on society and equips them with the tools to make informed, ethical decisions as they navigate a tech-driven world.

By integrating AI into their daily practices, youth workers can significantly enhance the learning experience, make education more inclusive, and help young people develop the skills they need to thrive in an AI-powered future. The integration of AI tools empowers youth workers to innovate in the classroom, allowing them to focus on their core mission: mentoring, guiding, and fostering the development of young people.

**READ: Enhancing Youth Work through Artificial Intelligence**



# Introduction to AI in Youth Work

## *How AI Can Enhance Engagement, Creativity, and Inclusivity in Learning*

AI has the potential to significantly enhance the learning experience by making it more engaging, creative, and inclusive. By leveraging AI, youth workers can cater to diverse learning styles, unlock new avenues for creativity, and ensure that no young person is left behind in the learning process. Here's how AI can contribute to each of these areas:

### Enhancing Engagement in Learning

Engagement is a cornerstone of effective learning. AI-driven tools can make learning more interactive and dynamic, offering a level of personalisation that traditional methods simply cannot match.

#### 1. Personalised Learning Experiences

AI can tailor educational content to meet the individual needs of learners, creating a more engaging experience. For example, platforms like [DreamBox Learning](#) use AI to analyse student responses in real-time and adjust the level of difficulty to match their pace, keeping learners engaged by ensuring they are constantly challenged at a level suited to their current abilities. This dynamic adaptation of content keeps students motivated and immersed in their learning journey, as they are neither overwhelmed nor bored.

#### 2. Gamification and Interactive Tools

AI can also enhance engagement through gamification, where learners earn points, badges, or rewards for completing tasks. [Classcraft](#), an AI-powered platform, uses game mechanics to engage students in learning, tracking their progress, and rewarding them for their involvement in class activities. Such tools motivate young people to take an active role in their education by turning learning into a fun, goal-oriented experience.

#### 3. AI in Social and Collaborative Learning

AI can facilitate collaboration by connecting students

with peers around the world. Tools like **Google Classroom**, integrated with AI, not only help youth workers manage and distribute lessons but also encourage collaborative work through online discussions and group projects. AI tools can monitor group interactions, provide insights into individual contributions, and suggest ways to improve teamwork, fostering a deeper sense of engagement in the learning process.

### Unlocking Creativity through AI

AI opens up new possibilities for creative expression, allowing young people to explore and experiment in ways that were previously unimaginable.

#### 1. AI as a Creative Partner

AI tools like [Runway ML](#) allow young people to create artwork, animations, and videos by simply providing input and letting the AI generate visually striking content. These tools remove barriers to entry for young people who may not have traditional artistic skills but are interested in creative expression. Whether they are creating digital art, producing short films, or experimenting with interactive installations, AI serves as a collaborative partner, enhancing their creative abilities.

#### 2. AI-Driven Storytelling

AI can also assist young people in telling their stories. Tools like [DeepDream Generator](#) allow users to create abstract, AI-generated visuals based on their input, encouraging creative exploration. These images can serve as the basis for storytelling in various formats, from written stories to video projects. AI's ability to process vast amounts of data and turn it into artistic content opens doors for youth to explore new forms of creativity, including digital art, music, and narrative storytelling.



# Introduction to AI in Youth Work

## *How AI Can Enhance Engagement, Creativity, and Inclusivity in Learning*

### **3. Innovation in Music and Performing Arts**

AI is also finding its place in music and the performing arts. AI-driven software like [Amper Music](#) and [AIVA](#) helps young people compose music by generating unique soundtracks based on specific genres, tempos, or emotional tones. For aspiring musicians or performers, these tools provide a springboard for experimentation, offering new ways to create and produce music that they may not have otherwise imagined. This creativity-driven approach helps young people think outside the box and explore AI's artistic potential.

### **Fostering Inclusivity in Education**

AI plays a crucial role in making education more inclusive by addressing the diverse needs of learners, ensuring that every young person, regardless of ability, has access to quality education.

#### **1. AI for Learners with Disabilities**

AI can help youth workers ensure that all students have access to the learning materials and support they need, particularly those with disabilities. For instance, [Microsoft Immersive Reader](#) is an AI-powered tool that helps learners with dyslexia or visual impairments by reading text aloud and offering translation and text-to-speech capabilities. These tools ensure that students with different learning needs can access and engage with content on an equal footing with their peers.

#### **2. Real-Time Transcriptions and Support for Hearing-Impaired Students**

For students with hearing impairments, AI tools like [Otter.ai](#) provide real-time transcriptions of spoken words, turning classroom discussions into text that can be read on a screen. This inclusion of real-time transcription ensures that hearing-impaired students

can follow lessons and participate in discussions, enhancing their engagement and understanding of the content.

### **3. Supporting Students with Learning Difficulties**

AI tools can also provide extra support for students with learning difficulties. [Read&Write](#), an AI tool for students with learning disabilities, helps them by offering features like word prediction, speech-to-text, and screen reading. These tools ensure that all students, regardless of their abilities, can engage in the same educational opportunities. AI's role in supporting diverse learners in a flexible and tailored manner helps foster an inclusive learning environment where every young person can thrive.

### **Breaking Down Barriers to Learning**

AI helps break down traditional barriers to education by providing new ways to access knowledge, whether through self-paced learning, interactive tools, or real-time feedback. AI's potential to assist in remote learning, provide continuous support, and ensure educational opportunities for underserved or disadvantaged groups is especially relevant in today's global landscape, where access to education can often be limited by geographical or socio-economic factors.

By integrating AI tools into everyday educational practices, youth workers can create an environment where learning is personalised, creative, and accessible. These advancements enable young people to engage in their education in a way that is tailored to their individual needs, interests, and abilities, ultimately promoting greater equity in education and preparing them for the challenges and opportunities of an AI-driven future.

## Conclusion:

### Introduction to AI in Youth Work

Incorporating AI into youth work and education is not just a technological advancement—it is a powerful tool that can transform the way young people learn, engage, and grow. As we've explored in this chapter, AI has the potential to enhance engagement, foster creativity, and promote inclusivity in learning environments. By personalising educational content, offering new creative possibilities, and ensuring that all learners, regardless of their background or abilities, have access to the tools they need, AI empowers both youth workers and the young people they support.

The importance of integrating AI into daily practices cannot be overstated. AI has the power to redefine the educational experience, providing youth workers with the resources to meet the diverse needs of their learners and to facilitate deeper, more meaningful interactions. Through its ability to adapt and personalise learning pathways, AI can make education more dynamic, relevant, and inclusive.

As we continue to explore the practical applications of AI throughout this guide, it becomes clear that AI is not just a fleeting trend—it is here to stay. Its integration into youth work offers new opportunities to improve learning outcomes, boost engagement, and ensure a more equitable educational experience for all young people. The future of youth work, with AI as a partner, holds exciting possibilities for young people to develop the skills and mindset needed for the challenges and opportunities of an increasingly AI-driven world.







“AI is not neutral. It's not just a tool; it's a reflection of the values of the people who create it.”

**Timnit Gebru,**  
AI researcher and advocate  
for ethical AI



# 02

## AI-ASSISTED LESSON PLANNING AND DEVELOPMENT







# AI-Assisted Lesson Planning and Development

## ChatGPT (OpenAI)

<https://openai.com/chatgpt/overview/>

ChatGPT, developed by OpenAI, is a powerful AI tool that can significantly streamline lesson planning for youth workers. With its ability to understand natural language, ChatGPT can generate customised lesson plans, quizzes, and discussion prompts based on specific topics and educational goals. This allows youth workers to quickly create relevant, engaging, and personalised learning content.

### Customised Lesson Plans

ChatGPT can help youth workers create detailed lesson plans tailored to particular topics, age groups, and learning objectives. By inputting basic instructions, such as the topic (e.g., climate change) or the desired learning outcomes, youth workers receive a structured plan with key concepts, activities, and discussion points. This helps reduce planning time while ensuring lessons are relevant and accessible to all learners, no matter their needs or learning styles.

### Quizzes and Assessments

Creating quizzes can also be simplified using ChatGPT. By requesting questions based on the lesson material, youth workers can receive multiple-choice, short-answer, or true/false questions tailored to the content. ChatGPT can even generate answer keys, providing a quick way to assess students' understanding and offer real-time feedback.

### Discussion Prompts

Engaging students in meaningful conversations is made easier with ChatGPT's ability to generate thought-provoking discussion prompts. These prompts can cover a range of topics, such as ethical dilemmas or current events, encouraging critical

thinking and fostering deeper conversations among youth. For example, ChatGPT might suggest questions like, "What are the ethical implications of AI?" or "How do you think AI will impact future jobs?" These prompts help stimulate reflection and discussion.

### Streamlining the Planning Process

ChatGPT allows youth workers to save time by quickly generating lesson content, quizzes, and prompts, freeing them up to focus on engaging with students. It also inspires creativity by offering fresh ideas, perspectives, and suggestions, enabling youth workers to deliver diverse and interactive lessons.

### Conclusion

By using ChatGPT, youth workers can create customised lesson plans, quizzes, and discussion prompts with ease. This AI tool simplifies lesson preparation, enhances engagement, and ensures content is tailored to the needs of the students, making it an invaluable asset for anyone involved in youth education.



**WATCH:** "Should we let students use ChatGPT?"



# AI-Assisted Lesson Planning and Development

## *Google Classroom with Quillionz*

<https://www.quillionz.com/>

Google Classroom is a widely used platform for managing and organising online learning environments. When combined with Quillionz, an AI tool designed to create quizzes and summaries, it becomes a powerful resource for youth workers to streamline lesson preparation and enhance student engagement.

### **Quillionz: The AI-Powered Tool**

Quillionz is an AI tool that generates quizzes, summaries, and discussion prompts based on lesson content. By simply entering a text or a topic, Quillionz uses machine learning algorithms to generate relevant and effective assessment materials. This tool is an excellent companion to Google Classroom, as it allows youth workers to quickly create resources that can be easily integrated into the platform.

### **Streamlining Lesson Planning**

One of the most time-consuming tasks in lesson planning is creating quizzes and assessments that accurately reflect the lesson content. With Quillionz, youth workers can simply input the material or key concepts they want to teach, and Quillionz will generate multiple-choice questions, short-answer questions, and other formats of assessments. This greatly reduces the time spent on creating these materials from scratch, allowing youth workers to focus on engaging with students.

### **Automatic Summaries and Discussion Prompts**

Quillionz doesn't just stop at quizzes—it can also generate summaries of the content being taught. This can be particularly helpful for reviewing key concepts or for students who might need additional clarification on the lesson. Furthermore, Quillionz

offers discussion prompts, which can be used to encourage deeper thinking and interaction among students. These prompts can be based on the lesson's key ideas, ethical considerations, or real-world applications of the topic.

### **Integration with Google Classroom**

Once quizzes, summaries, and discussion prompts are generated by Quillionz, they can be easily added to Google Classroom. This integration allows youth workers to create a complete learning package for their students, all within one platform. For example, a quiz can be automatically created and assigned to a class with a deadline, or a discussion prompt can be posted as part of a discussion thread, encouraging active participation.

### **Enhancing Student Engagement**

AI-generated quizzes and discussion prompts are an effective way to keep students engaged. By using Quillionz, youth workers can provide more diverse forms of assessment and encourage active participation in the classroom. Interactive quizzes can help reinforce learning, while thought-provoking discussion prompts allow students to explore topics in depth and engage in critical thinking.

### **Conclusion**

By integrating Google Classroom with Quillionz, youth workers can simplify lesson planning and ensure that educational content is personalised, interactive, and engaging. The ability to generate quizzes, summaries, and discussion points using AI not only saves time but also enhances student learning experiences, making this combination an invaluable tool for educators looking to maximise their efficiency and engagement in the classroom.

## Conclusion: AI-Assisted Lesson Planning and Development

The integration of AI tools like ChatGPT and Google Classroom with Quillionz into lesson planning and development offers immense benefits for youth workers. These AI-powered tools not only save valuable time but also provide customised, engaging, and interactive learning experiences for students. By automating the creation of lesson plans, quizzes, and discussion prompts, youth workers can focus more on personal interactions with students and less on administrative tasks.

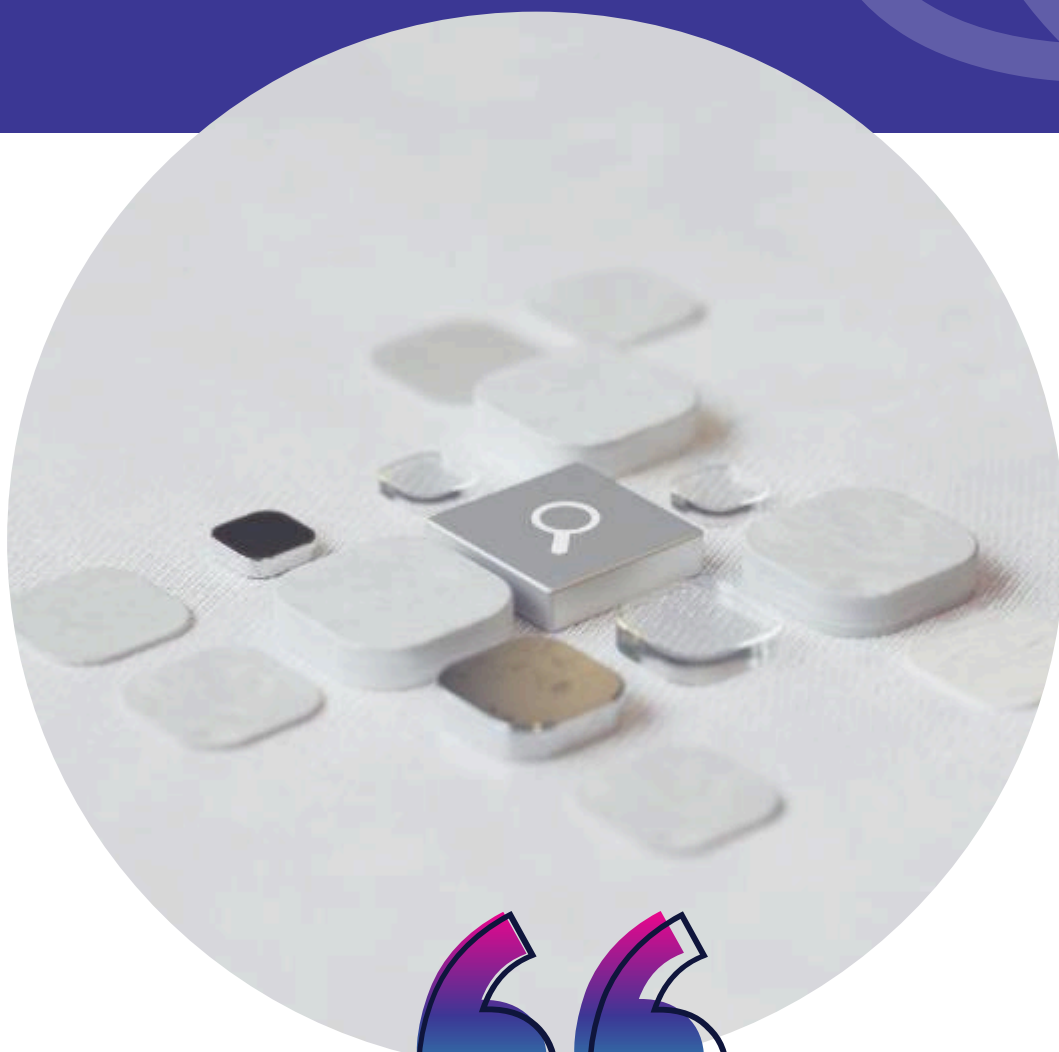
Through AI, lesson materials are tailored to the specific needs of each group, enabling a more personalised and dynamic learning environment. Tools like Quillionz help in generating diverse forms of assessment and review materials, enhancing student participation and engagement. Additionally, AI-driven platforms like Google Classroom enable seamless integration, making it easier for youth workers to manage and deliver content effectively.

By embracing AI-assisted lesson planning, youth workers are empowered to create more effective, inclusive, and engaging educational experiences. As AI technology continues to evolve, its role in youth education and engagement will only grow, providing new opportunities for creative and efficient teaching strategies that cater to the unique needs of every learner.



"The ethical use of AI is not just about doing what is technically possible, but about doing what is right."

**Sundar Pichai,**  
CEO at Alphabet (Google)





# 03

## AI FOR CREATIVITY AND DESIGN





# AI for Creativity and Design

## Runway ML

<https://runwayml.com/>

Runway ML is a powerful AI tool that enables youth workers and learners to create unique digital artwork, videos, animations, and other visual media. It blends artificial intelligence with creativity, allowing young people to experiment and innovate in the digital arts.

### Key Features and Benefits of Runway ML

- 1. AI-Powered Creativity:** Runway ML transforms basic inputs like text or images into complex art, enabling youth workers to guide young people in producing their own creative projects. Whether it's abstract art, animation, or digital illustrations, it fosters creativity and exploration.
- 2. User-Friendly Interface:** Runway ML is designed to be intuitive, with no need for coding skills. Its simple drag-and-drop interface makes it accessible to beginners, ensuring youth workers and students can jump into the creative process easily.
- 3. Collaboration and Learning:** The platform supports collaborative projects, allowing youth workers and young people to create and share ideas together. This promotes teamwork while enhancing creative and technical skills.
- 4. Versatile Applications:** Runway ML's tools are useful for various creative tasks, from creating digital content for social media to producing animations for storytelling projects. It opens doors to career pathways in fields like graphic design and video production.
- 5. Ethical Exploration:** Youth workers can use Runway ML to spark discussions on the ethical aspects of AI in the creative process, such as algorithmic biases and content ownership, ensuring that learners understand both the potential and the implications of AI.

### Example Project: AI-Generated Art and Storytelling

A simple project using Runway ML involves having young people create an AI-generated art piece that tells a story. By inputting character and setting descriptions into the tool, students can generate visuals, which can then be used to create a short film or digital art exhibition.

### Conclusion

Runway ML offers a dynamic way for young people to explore AI's role in creativity, making it easy for youth workers to incorporate AI into arts and design projects. Not only does it encourage creative confidence, but it also provides an opportunity to discuss the ethical dimensions of AI in the arts, preparing students for future roles in the creative industries.



**WATCH:** "Generative AI for Video"

# AI for Creativity and Design



## DeepDream Generator

<https://deepdreamgenerator.com/>

DeepDream Generator is a fascinating AI tool that transforms regular images into dream-like, surreal artwork by using a neural network. Created by Google, this platform takes input images and enhances them, producing a distinctive, highly creative style that blends patterns and textures in unexpected ways. It's a perfect tool for engaging young people in creative exploration, allowing them to experience the fusion of AI and art.

### Key Features and Benefits of DeepDream Generator

- 1. Surreal Art Creation:** The main feature of DeepDream Generator is its ability to turn simple images into abstract, psychedelic artwork. By enhancing patterns and applying a unique neural network technique, it generates intriguing visuals that spark creativity and imagination.
- 2. Easy to Use:** Similar to Runway ML, DeepDream Generator offers an intuitive, user-friendly interface. Users can upload images, adjust settings to control the intensity of the transformation, and quickly generate new pieces of art—ideal for both beginners and more experienced digital artists.
- 3. Exploring AI's Artistic Potential:** By using DeepDream Generator, youth workers can show young people how AI can be used to push the boundaries of traditional art. It encourages students to think outside the box and explore the possibilities AI can offer in creative fields.
- 4. Enhancing Storytelling:** DeepDream Generator can be used to create stunning visual elements for storytelling projects. Whether it's creating

surreal visuals for a digital comic or adding a unique flair to a video, the tool helps youth workers engage learners in narrative-driven art creation.

- 5. AI Ethics in Art:** The platform also provides an opportunity to discuss the ethical issues surrounding AI-generated art. Topics such as ownership, authorship, and the role of human creativity versus machine creativity can be explored, encouraging critical thinking about AI's impact on art and culture.

### Example Project: Surreal Art for Storytelling

Youth workers can assign a project where young people upload a photo of themselves, their friends, or a landscape, and then use DeepDream Generator to transform it into a surreal, dream-like image. The students can then use these images as part of a larger storytelling project, creating a unique, visually captivating narrative.

### Conclusion

DeepDream Generator is an excellent way for young people to explore the intersection of AI and art, offering endless possibilities for creative expression. It encourages youth to experiment with AI in a fun and engaging way, while also providing an opportunity for critical reflection on the ethical implications of AI in the creative industry. Whether used for personal creativity or collaborative projects, DeepDream Generator makes AI in art accessible and exciting for young learners.



## Conclusion: AI for Creativity and Design

The integration of AI tools like Runway ML and DeepDream Generator into creativity and design opens up a world of possibilities for young people to explore new artistic horizons. These AI-driven platforms provide youth workers with innovative resources to foster creativity, enabling young learners to express themselves in unique ways, while also learning about the potential of AI in the creative industries.

By incorporating AI into creative projects, youth workers can help young people understand the power of technology in shaping art and design. These tools not only enhance artistic skills but also encourage critical thinking about the role of AI in artistic expression. Moreover, these platforms provide an engaging way to teach young people about ethics, ownership, and the evolving nature of creative work in an AI-driven world.

AI for creativity and design is more than just about producing visually stunning art—it's about empowering youth to experiment, innovate, and question the implications of AI in their lives. With the right guidance and support, these tools can be transformative in expanding the scope of young people's creative potential, encouraging them to push boundaries and embrace new possibilities in both the digital and physical worlds.

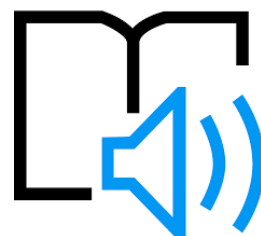




# 04

## AI FOR INCLUSION AND ACCESSIBILITY IN EDUCATION





# AI for Inclusion and Accessibility in Education

## Microsoft Immersive Reader

[Microsoft Immersive Reader](#) is an AI-powered tool designed to help learners with disabilities engage more effectively with written content. This tool enhances accessibility in education by offering features such as text-to-speech, translation, and adjustable text formatting, making it an invaluable resource for students with visual impairments, dyslexia, or other learning difficulties.

### Key Features and Benefits

- **Text-to-Speech:** Immersive Reader reads text aloud, allowing students to listen to content instead of reading it. This is particularly helpful for those with reading difficulties, such as dyslexia, or students who benefit from auditory learning. The ability to control the speed and voice of the reading enhances individual learning preferences.
- **Translation:** The tool can translate text into multiple languages, supporting students whose first language is not the one in which the material is written. This feature fosters inclusivity and helps bridge language barriers, ensuring that all students have access to the same learning resources, regardless of their native language.
- **Text Customisation:** Immersive Reader allows students to adjust the text formatting to suit their needs, including changing font size, spacing, and background colour. This ensures that students with visual impairments or attention difficulties can tailor the reading experience to enhance readability and focus.

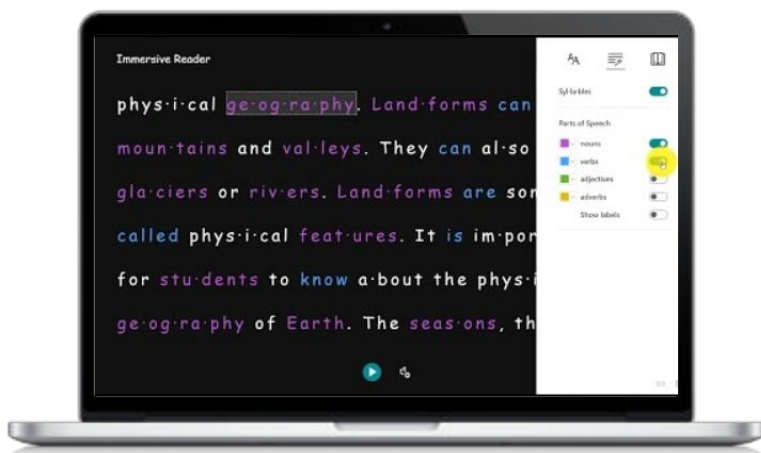
### How It Supports Inclusion

Immersive Reader is more than just a tool—it's a gateway to a more inclusive educational environment. By providing support for diverse learning needs, it empowers students to engage with

content in a way that works best for them. This helps to level the playing field, giving every learner, regardless of ability, an equal opportunity to succeed in their education.

For youth workers and educators, Microsoft Immersive Reader is a powerful tool for enhancing student engagement. It ensures that no student is left behind by offering them personalised learning experiences. Whether working with students who have reading challenges, language barriers, or other learning disabilities, Immersive Reader helps make educational content accessible and understandable.

Incorporating Immersive Reader into your teaching practice means embracing technology to meet the needs of all students. By doing so, youth workers can foster a more inclusive, supportive environment that nurtures the strengths of each learner while promoting equity in education.



**WATCH:** “How to use the Immersive Reader - making reading more accessible”

# AI for Inclusion and Accessibility in Education

**Otter.ai**

<https://otter.ai/>

Otter.ai is an innovative AI-powered tool that provides real-time transcription and summarisation, making it an essential resource for students with hearing impairments, learning difficulties, or those who benefit from written reinforcement of spoken content. By converting speech into accurate, easy-to-read transcripts, Otter.ai ensures that students can fully engage with lessons, discussions, and lectures, regardless of their individual learning needs.

## Key Features and Benefits

- **Real-Time Transcription:** Otter.ai transcribes spoken words into text as they are being spoken. This is incredibly useful in classrooms or group discussions, where students may struggle to keep up with the pace of verbal communication. By providing real-time captions, Otter.ai ensures that every student can follow along with the material being discussed.
- **Text Summarisation:** Beyond simple transcription, Otter.ai also provides summarised versions of transcripts. This feature is particularly beneficial for students who need to review or process information more slowly. By highlighting key points and providing condensed versions of the conversations, Otter.ai makes it easier for students to grasp the most important information quickly.
- **Collaboration and Sharing:** Otter.ai supports collaboration by allowing users to share transcriptions and notes with classmates or educators. This feature helps foster group learning, enabling students to access and discuss the content in a format that suits their needs.
- **Searchable Transcripts:** The transcripts produced by Otter.ai are fully searchable, enabling students to quickly locate specific pieces of information within their notes. This is a valuable feature for

students who need to review specific parts of a lecture or discussion and helps them to study more efficiently.

## How It Supports Inclusion

Otter.ai is a game-changer for students with hearing impairments or other learning difficulties that make it challenging to keep up with fast-paced verbal content. By offering real-time transcription, it ensures that no student misses out on important information, regardless of their auditory abilities.

For youth workers and educators, Otter.ai provides an easy way to make lessons more accessible. Transcripts can be shared with students who may struggle with note-taking or who benefit from having a written record of what was discussed. Furthermore, Otter.ai helps to create a more inclusive classroom environment by catering to the diverse needs of learners.

With Otter.ai, youth workers can enhance student engagement by making the learning process more accessible. Students can follow along with lessons, contribute to discussions, and easily revisit key information. The tool is also useful for collaborative projects, as students can access and share the transcripts to work together more effectively.

By integrating Otter.ai into daily educational practices, youth workers can ensure that their students receive equal opportunities to succeed, no matter their learning style or abilities. Otter.ai is a tool that not only fosters inclusivity but also empowers students to take ownership of their learning.

# Conclusion: AI for Inclusion and Accessibility in Education

AI tools like Microsoft Immersive Reader and Otter.ai play a vital role in creating more inclusive and accessible educational environments. These technologies bridge gaps for students with disabilities, offering them the support they need to fully engage with learning materials and participate in classroom activities. Whether it's through text-to-speech capabilities, real-time transcriptions, or summarised content, AI is helping to level the playing field, ensuring all students have access to the same educational opportunities.

By integrating AI for inclusion and accessibility into daily youth work, educators can better meet the diverse needs of their students. These tools not only improve engagement but also foster an environment where every student, regardless of their abilities, can thrive. Embracing such technologies allows youth workers to provide more personalised and equitable educational experiences, supporting each learner's unique journey. The future of education lies in leveraging AI to promote accessibility, and by doing so, we open doors to limitless possibilities for all students.





# 05

## AI FOR MONITORING AND PERSONALISED LEARNING





# AI for Monitoring and Personalised Learning

## *DreamBox Learning*

DreamBox Learning is an AI-powered educational platform designed to revolutionise the way students learn, particularly in subjects like mathematics. By using advanced algorithms and data analytics, DreamBox adapts its lessons in real-time to meet the needs of individual students. The platform continuously monitors a learner's progress, making adjustments to the difficulty and pace of tasks based on their interactions. This allows youth workers to offer a more personalised learning experience, addressing each student's strengths and weaknesses with precision.

DreamBox's real-time adaptability is one of its standout features. For instance, if a student is excelling at a particular concept, DreamBox will introduce more challenging tasks to encourage continued growth. Conversely, if a student is struggling, the system will simplify the material and offer additional support. This ensures that every learner remains engaged and challenged at the right level, reducing frustration and boosting confidence.

The platform provides youth workers with detailed insights into each student's progress, allowing them to monitor learning paths and quickly identify areas where support is needed. This data-driven approach not only enhances the learning experience for the student but also empowers educators to intervene at the right time with targeted support.

DreamBox also offers a wealth of analytics, enabling youth workers to track group trends and better understand overall classroom performance. This feature helps identify patterns in learning behaviours, whether positive or negative, giving educators the tools to adapt their teaching strategies to ensure success for every student. By harnessing the power of AI, DreamBox makes it easier to

provide tailored educational experiences that cater to the diverse needs of students, ensuring they all have the opportunity to succeed.

**VISIT: Official website for  
DreamBox Learning**





# AI for Monitoring and Personalised Learning

## *Classcraft*

Classcraft is an innovative platform that uses AI and gamification to enhance student engagement and track behaviour, offering youth workers a dynamic way to monitor and personalise learning experiences. This AI-driven tool integrates classroom management with interactive learning, turning lessons into engaging quests where students can earn rewards, level up, and collaborate to achieve goals. The gamified approach creates an environment that motivates students to actively participate, while also fostering a sense of community and cooperation.

Classcraft collects valuable data on student engagement, behaviour, and academic performance, providing real-time insights to youth workers. By tracking how students interact with lessons and each other, the platform identifies trends in learning and behaviour that might not be immediately apparent. This data can be used to pinpoint students who may need extra support, as well as those excelling and in need of more challenging tasks.

What makes Classcraft particularly effective is its ability to tailor interventions based on this data. If a student is disengaged or struggling, the system can prompt personalised strategies for the youth worker to implement, such as offering additional encouragement or adjusting lesson content. Conversely, it also helps keep motivated students engaged by offering them new challenges and opportunities to collaborate with peers.

Classcraft's AI-driven analytics allow youth workers to spot patterns across an entire class, such as identifying behavioural trends that may impact learning. It helps them fine-tune teaching strategies, create customised rewards systems, and foster a positive learning environment where every student

can thrive. By combining behaviour tracking with educational content, Classcraft not only makes learning more engaging but also empowers educators to deliver highly personalised learning experiences that meet the needs of each student, ensuring a more inclusive, effective approach to education.

**VISIT: Install Classcraft now**





## AI for Monitoring and Personalised Learning

As we continue to embrace AI's potential, these tools will not only streamline lesson delivery and engagement but will also help create a more personalised, student-centred approach to education that empowers both youth workers and learners alike. AI's role in monitoring and personalising learning ensures that each young person can progress at their own pace, unlocking new opportunities for success and growth.







“Artificial intelligence is  
the new electricity.”

**Andrew Ng,**  
Co-founder of Google Brain  
and Coursera, and Professor  
at Stanford University.



# 06

## ETHICAL AI USAGE AND CRITICAL THINKING





# Ethical AI Usage and Critical Thinking

## *AI Fairness 360 (IBM)*

AI Fairness 360 is an open-source toolkit developed by IBM that helps users identify and mitigate biases in machine learning models. The toolkit offers a comprehensive suite of algorithms, metrics, and tutorials aimed at making AI systems fairer and more transparent, which makes it a valuable tool for youth workers and educators seeking to introduce young people to ethical AI principles.

### **Understanding AI Bias**

One of the core ethical challenges in AI development is bias. AI models learn from data, and if the data is biased or incomplete, the AI's decisions may reflect and perpetuate these biases. For example, if a facial recognition system is trained primarily on images of people from one demographic, it may perform poorly on individuals from other groups, leading to unfair outcomes. AI Fairness 360 helps to highlight such risks, showing youth how biases can manifest in AI systems and how they might be addressed.

### **Toolkit Features for Youth Engagement**

AI Fairness 360 provides a wide range of practical resources to facilitate learning. The toolkit includes several fairness metrics that allow users to measure and understand the bias in their machine learning models. These metrics help to assess how AI systems may treat different groups in various ways, and how to correct those imbalances. Youth workers can use these metrics to guide discussions on topics such as fairness, equality, and justice in AI.

For example, one key feature of AI Fairness 360 is its ability to offer "bias mitigation" techniques. These techniques adjust the model's outcomes to reduce bias and ensure that the AI's decisions are more equitable. Educators can use these features to show young people how AI systems can be improved and

tailored to meet fairness standards, sparking valuable conversations about how technology intersects with ethics.

### **Promoting Ethical AI Discussions**

The toolkit's real-world applications provide a foundation for youth workers to initiate thoughtful discussions with young people about AI's role in society. By using AI Fairness 360, educators can guide students to think critically about the ethical implications of AI systems, including how they might reinforce social inequalities or provide unfair advantages. Encouraging young people to examine the fairness of AI tools equips them with essential skills in critical thinking, ethics, and technology design.

Moreover, by working with AI Fairness 360, youth workers can help young people understand the importance of designing inclusive AI systems that benefit society as a whole. Through hands-on experiences and case studies, youth can be introduced to the idea that AI should be used responsibly and ethically, promoting fairness, transparency, and accountability.

### **Conclusion**

AI Fairness 360 is a powerful educational tool that not only introduces young people to AI's potential, but also highlights the importance of fairness in AI models. By integrating this toolkit into youth work, educators can foster a deeper understanding of the ethical challenges in AI and encourage the next generation to think critically about how AI technologies shape our society. Through this, youth workers can inspire young people to not only become consumers of technology, but also responsible creators and critics of it.



# Ethical AI Usage and Critical Thinking

## Teachable Machine (Google)

Teachable Machine, a tool created by Google, allows users to create and train simple machine learning models using data such as images, sounds, or poses. It is designed to be accessible, making it ideal for introducing young people to machine learning and its ethical implications.

### Hands-On Learning with AI

Teachable Machine provides a hands-on approach, enabling youth to collect data, train a model, and test its accuracy. By guiding young people through the process, youth workers can show how machine learning algorithms work in real-time. For example, learners can train the AI to recognise objects, actions, or sounds, gaining a practical understanding of AI's functioning.

This interactive process allows youth to engage directly with AI, making it easier to grasp abstract concepts and learn how AI models are trained and tested. Youth can also customise the model to recognise different inputs, further enhancing their understanding of machine learning.

### Understanding Ethical Implications through AI

In addition to teaching AI basics, Teachable Machine encourages exploration of its ethical implications. Youth can discuss issues such as data bias by asking questions like: "What happens if the data used is not representative?" and "How can bias in AI impact real-world decisions?"

Through these discussions, young people can learn about the importance of using diverse and fair data to train AI models. They are encouraged to think about the ethical considerations involved in AI development, including privacy concerns and the

consequences of biased systems.

### AI and Critical Thinking

Teachable Machine promotes critical thinking by prompting young people to reflect on the data they use and the decisions they make while training their models. This fosters conversations around fairness, transparency, and the potential risks of AI. Additionally, it helps youth understand the challenges in building inclusive and ethical AI systems.

By using Teachable Machine, youth can also reflect on how AI is applied in real-world scenarios, such as healthcare or education, where bias can have significant consequences. This promotes a broader understanding of AI's impact on society and the importance of responsible AI development.

### Conclusion

Teachable Machine offers an engaging way for young people to explore AI and its ethical dimensions. It empowers them to create their own models while considering the fairness, bias, and transparency in AI. By using this tool, youth workers can encourage critical thinking and foster a deeper understanding of the responsible use of AI, helping young people become informed creators and ethical participants in the development of AI technologies.





## Conclusion: Ethical AI Usage and Critical Thinking

The "Ethical AI Usage and Critical Thinking" chapter highlights the importance of equipping young people with the tools to not only understand the mechanics of artificial intelligence but also its ethical implications. By using resources like IBM's AI Fairness 360 and Google's Teachable Machine, youth workers can guide learners to explore AI through a critical lens, encouraging them to examine the biases, fairness, and transparency involved in AI models.

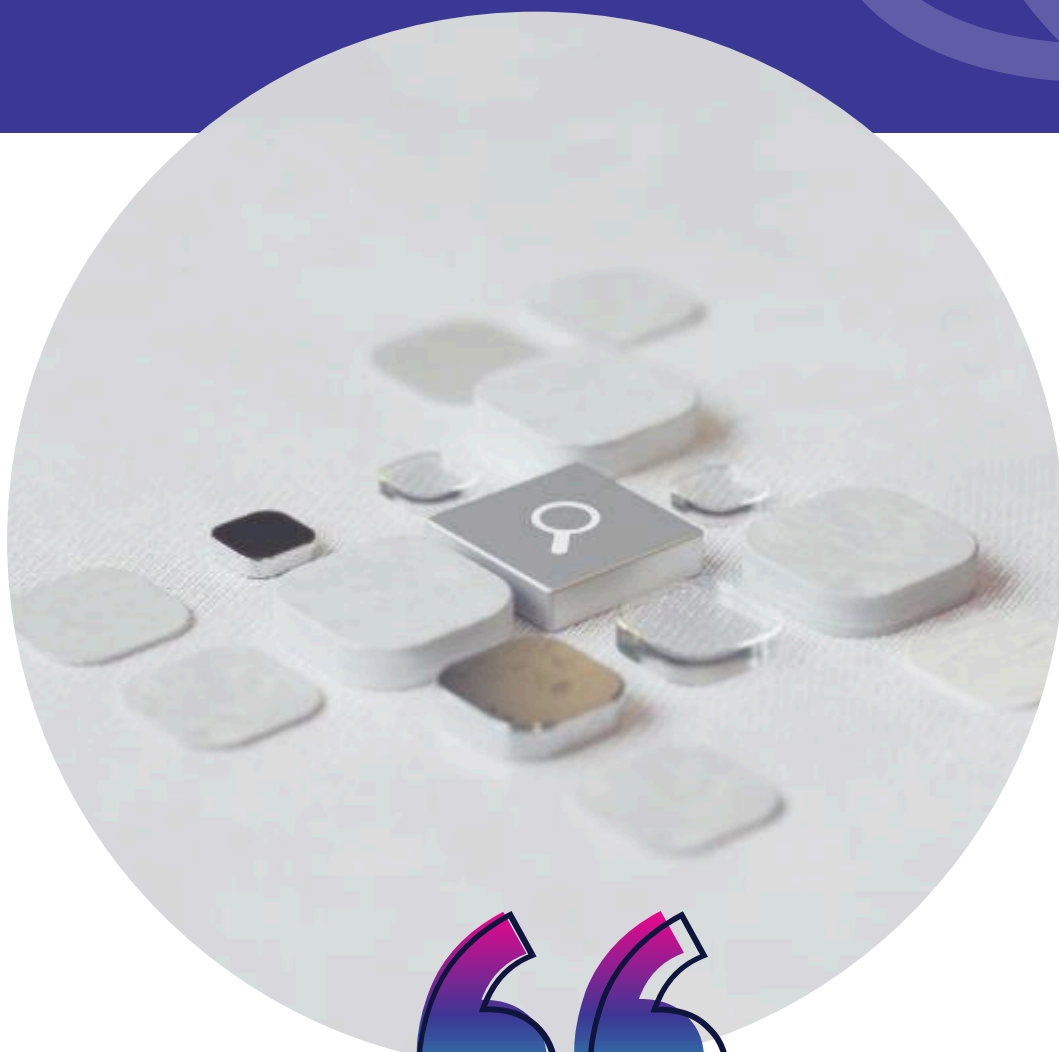
AI technologies are rapidly evolving, and it is crucial that the next generation of thinkers and creators is equipped to make ethical decisions in this realm. By fostering critical thinking and engaging youth in discussions about AI ethics, we empower them to be responsible digital citizens and informed contributors to the development of future technologies.

As young people learn how to interact with AI, they must also learn how to question its uses and challenge the ethical dilemmas it presents. This chapter has provided tools and frameworks to help youth navigate the complexities of AI, ensuring they are well-prepared to engage thoughtfully with the technology and its impact on society. By prioritising ethical considerations alongside technical skills, we can cultivate a generation that not only understands AI but also shapes its future in ways that promote fairness, transparency, and inclusivity.



"AI is not just about technology; it's about the values and choices we make as a society."

**Timnit Gebru,**  
AI researcher and advocate for ethics in AI



# 07

## CONCLUSION: PREPARING YOUTH FOR AN AI FUTURE



# Preparing Youth for the AI-Powered Future

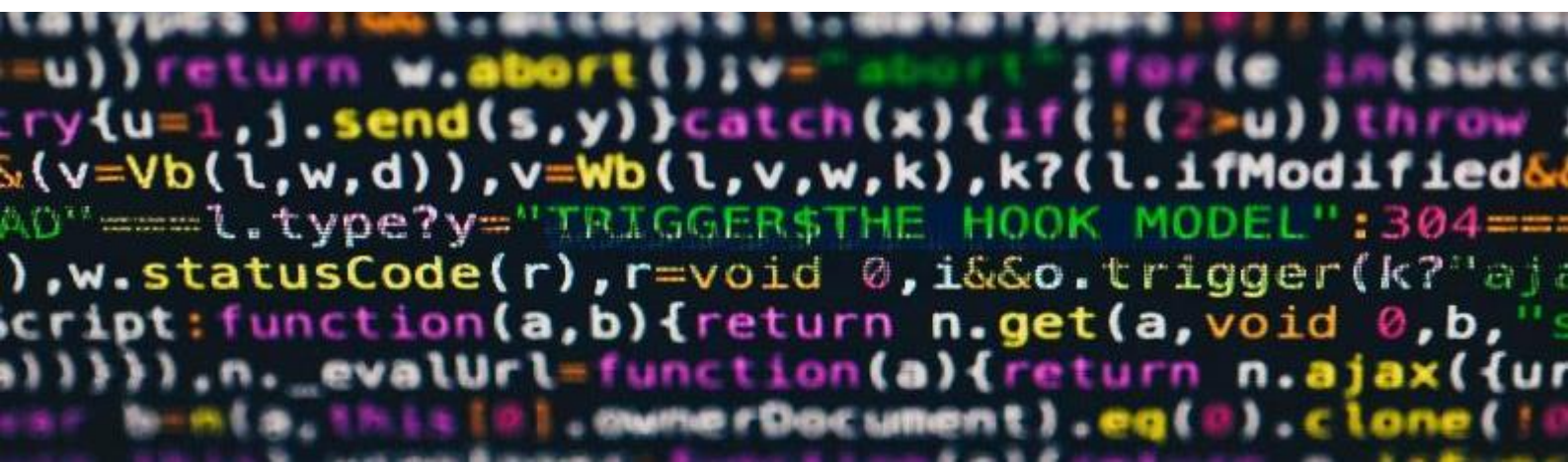
## *In Conclusion...*

As we continue to witness rapid advancements in artificial intelligence, its transformative potential in education and youth work becomes increasingly evident. AI is not just a tool for automation or data processing; it is a catalyst for rethinking how we teach, learn, and engage with the world around us. For youth workers, AI offers new ways to enrich learning experiences, promote creativity, and support personalised development. By embracing AI, we have the opportunity to shape a future where young people are not only consumers of technology but also critical thinkers and responsible creators.

One of the most important aspects of AI education is encouraging ethical and critical thinking. As AI technologies become more embedded in our everyday lives, young people must understand the ethical implications of these tools. They need to develop the ability to question the fairness of algorithms, the impact of AI on society, and the role they can play in shaping the future of these technologies. By fostering a mindset that combines technical knowledge with ethical awareness, we can prepare the next generation to navigate the complexities of an AI-driven world.

For youth workers, the journey does not end with introducing AI into the classroom. As AI technology continues to evolve, it is crucial for educators to stay informed and adapt their practices. Continuous learning and collaboration with tech experts, AI developers, and other educators will ensure that youth workers remain equipped to provide the best possible support for young people. By integrating AI into their daily practices, youth workers can enhance engagement, inclusivity, and creativity, ensuring that their students are prepared not only for today's challenges but also for the opportunities and ethical dilemmas of the future.

In conclusion, preparing youth for an AI-powered future is more than just about teaching them how to use AI; it's about empowering them to shape the future of technology with a sense of responsibility and awareness. The journey towards this future will be defined by how we equip young people with the skills, knowledge, and ethical mindset they need to thrive in an increasingly automated world. By working together to integrate AI education into youth work, we can unlock the immense potential that AI holds for both individual growth and societal advancement.





"The purpose of AI is to help people, not replace them. Our responsibility is to ensure that the use of AI reflects the values we hold dear and enhances the quality of life for everyone."



**Sundar Pichai,**  
CEO of Google



# 08

## ANNEXES



# Annexes

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# Annexes

## Glossary

### AI (Artificial Intelligence)

Systems that mimic human intelligence to perform tasks like decision-making, language processing, and pattern recognition.

### Machine Learning (ML)

A type of AI where systems learn from data to improve their performance over time without explicit programming.

### Deep Learning

A subset of machine learning using layered neural networks to process complex data like images and speech.

### Natural Language Processing (NLP)

AI's ability to understand and generate human language, used in chatbots and translation tools.

### Computer Vision

AI that enables machines to interpret and make decisions based on visual data, like images and videos.

### Ethical AI

The practice of designing AI that aligns with ethical principles like fairness, transparency, and accountability.

### Bias in AI

When AI systems produce unfair or discriminatory outcomes due to biased training data.

### Transparency in AI

Making AI systems understandable and explainable so users can trust how decisions are made.

### Accountability in AI

Ensuring that individuals or organizations are responsible for the actions of AI systems.

### Algorithm

A set of instructions or rules followed by AI systems

to solve problems or make decisions.

### Trustworthy AI

AI systems that are reliable, fair, transparent, and align with ethical guidelines.

### Ethical Dilemma

A situation where individuals must choose between competing ethical principles, often seen in AI decision-making.

### Bias in Data

When data reflects societal biases, which can be learned and amplified by AI models.

### Inclusive Design

Creating products, including AI, that are accessible and fair for all, including underrepresented groups.

### Data Privacy

Protecting personal and sensitive information from misuse, especially in AI systems.

### Generative AI (GenAI)

AI that creates new content, such as text, images, or music, based on learned patterns.

### AI Fairness

Ensuring AI systems treat all users equitably and avoid discriminatory outcomes.

### AI-Driven Personalization

Using AI to tailor content or services to individual preferences and needs.

### Interactive Learning

Engaging students through active participation and problem-solving, often using AI tools.

### Digital Divide

The gap between those who have access to technology, including AI, and those who do not.





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