



Teens in AI

**AI4GOOD
INCUBATOR**

Report
2023

Platinum Partners

Capgemini  Sage

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Preface

Message from the CEO

At Teens in AI, we are delighted to be sharing 2023's AI4Good Incubator Report with you.

Our annual AI4Good Incubator engages teens aged 12 to 18 in a global five-day, virtual bootcamp style programme where they build a tech-based project inspired by a climate-related United Nations Sustainable Development Goal. **This year, we engaged some 70 young people from 18 countries to develop technology-for-good based on Sustainable Development Goal 15 - "Life on Land"**. Their creativity was truly inspiring, leaving the Judges with an exceptionally tough decision in choosing the winning team!

We hosted expert speakers and mentors from **our valued Platinum Partners, Capgemini and Sage**, who joined us in inspiring these enterprising young minds into the fields of AI and AI ethics, technology and design thinking.

Diversity and inclusion are focal points of our aligned values, with an emphasis on those from under-resourced communities. Our Impact in Numbers is testament to our commitment to creating a more balanced representation in our future leaders. **The AI4Good Incubator upholds the commitment to equal opportunities through aligned strategic partnerships such as those with Sage and Capgemini – to whom we are grateful for their continued support.**

Together, we are igniting change - one teen at a time.

Elena Sinel

Founder & CEO, Teens in AI



Elena Sinel

Founder & CEO

elena.sinel@teensinai.com



Thank you

One focus. Inspiring a diverse tech generation.

It takes a village. Thank you to our Platinum Partners for being part of ours.



Elena Sinel
Founder & CEO



Bev Chislett
Head of Marketing



Ntsika Bovula
Programme Project Manager



Sherole Webster
Marketing Manager





Teens in AI

Programme Overview

Igniting change, one teen at a time

Programme Overview

Connecting people. Improving circumstances. Transforming lives.

The AI4Good Incubator, a global five-day, virtual bootcamp style programme, is a gateway to making a tangible impact on the world. Teens aged 12 to 18 learn vital skills that drive innovation to solve today's problems using cutting-edge technologies.

At the 2023 AI4Good Incubator we ignited a revolution which saw some 70 motivated teens from around the world embark on a journey to shape the future. **In line with the United Nations' Sustainable Development Goal 15, focused on "Life on Land", this year's AI4Good Incubator focused on a critical topic that resonates deeply with the global community.** By aiming to protect, restore, and promote the sustainable use of terrestrial ecosystems, manage forests responsibly, combat desertification, and halt biodiversity loss, the Incubator harnessed the power of AI and innovation to contribute directly to the preservation of our planet's natural environments.

We believe that diversity is essential to driving innovation and solving today's most pressing issues and we are delighted to report that 63% of our game-changing participants identified as female or non-binary, showing the world that AI knows no bounds when it comes to gender.

Participants joined from countries including the UK, Morocco, Tunisia, Ghana, Mozambique, Uzbekistan, Kazakhstan, Spain, Tanzania, Nigeria, Egypt, Bulgaria, Kyrgyzstan, UAE, Poland, Germany, Turkey and the USA.





Teens in AI

Delivering Impact
Together



Programme Objectives



“ Our shared motivation primarily revolves around empowering minority and underrepresented youth and making a substantial impact in the industry by actively engaging in AI education for teenagers aged 11-19. Our commitment lies in enhancing diversity and fostering digital inclusion within the tech industry, with the goal of cultivating a more varied AI workforce, mitigating bias, whilst fully acknowledging the significance of inclusive AI algorithms. We aim to nurture comprehensive AI talent through educational initiatives.

Connecting and raising awareness.

Over the campaign period, the programme not only reached some **70** participants but also **8,160 teenagers** through direct communication. The broader audience not only learned more about the programme but about both Platinum Partners, Sage and Capgemini, and their commitment to nurturing talent.

Improving global impact.

“ **81%** of the teens would recommend the programme to a friend and many have indicated that their involvement in the programme will strengthen their university and/or apprenticeship applications.

Transforming the educational landscape.

“ **84%** of participants in the programme have reported that their experience has been helpful in inspiring further studies and careers in the tech and AI field.





Teens in AI

Impact in Action

Increasing diversity and digital inclusion

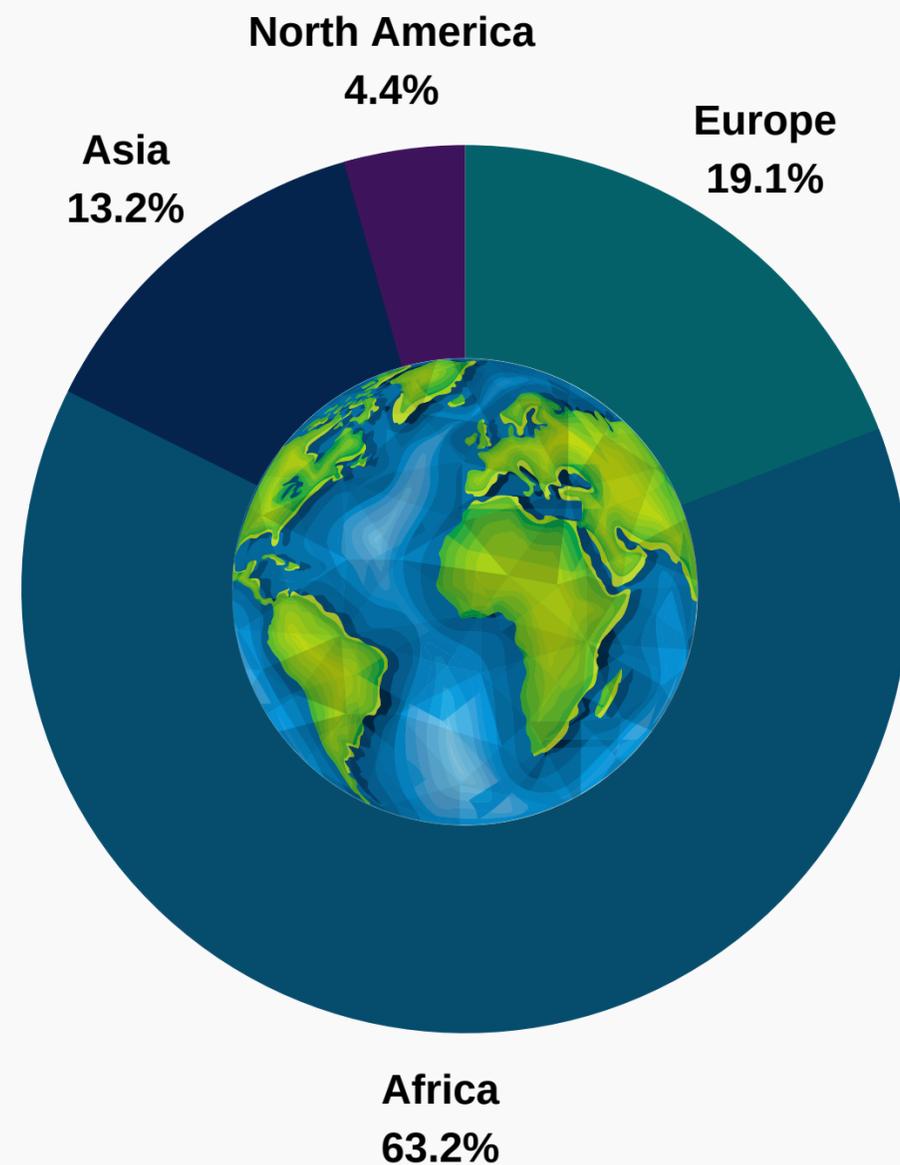
Our Global Reach



-  Participants
-  Mentors

Impact in Action

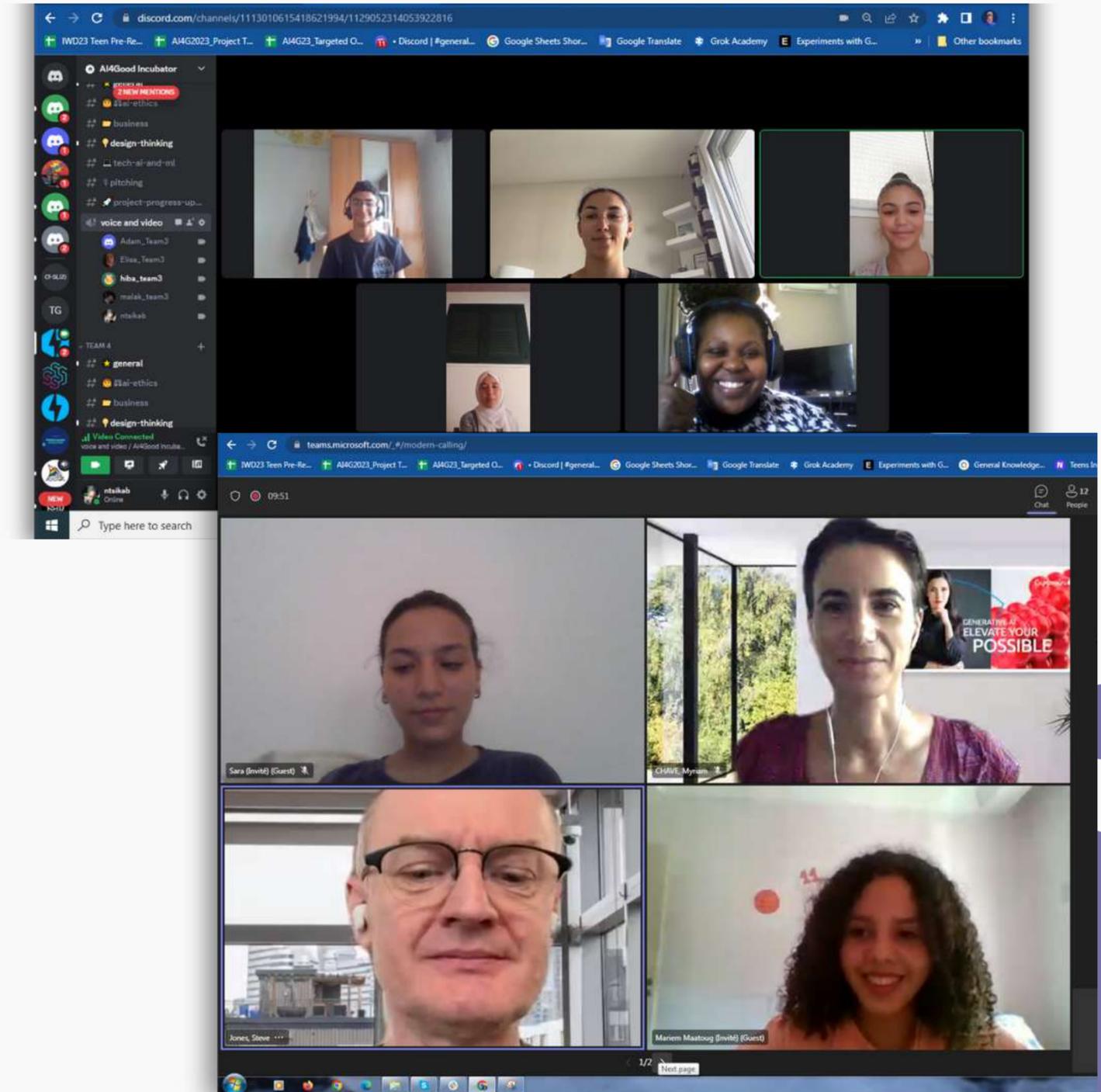
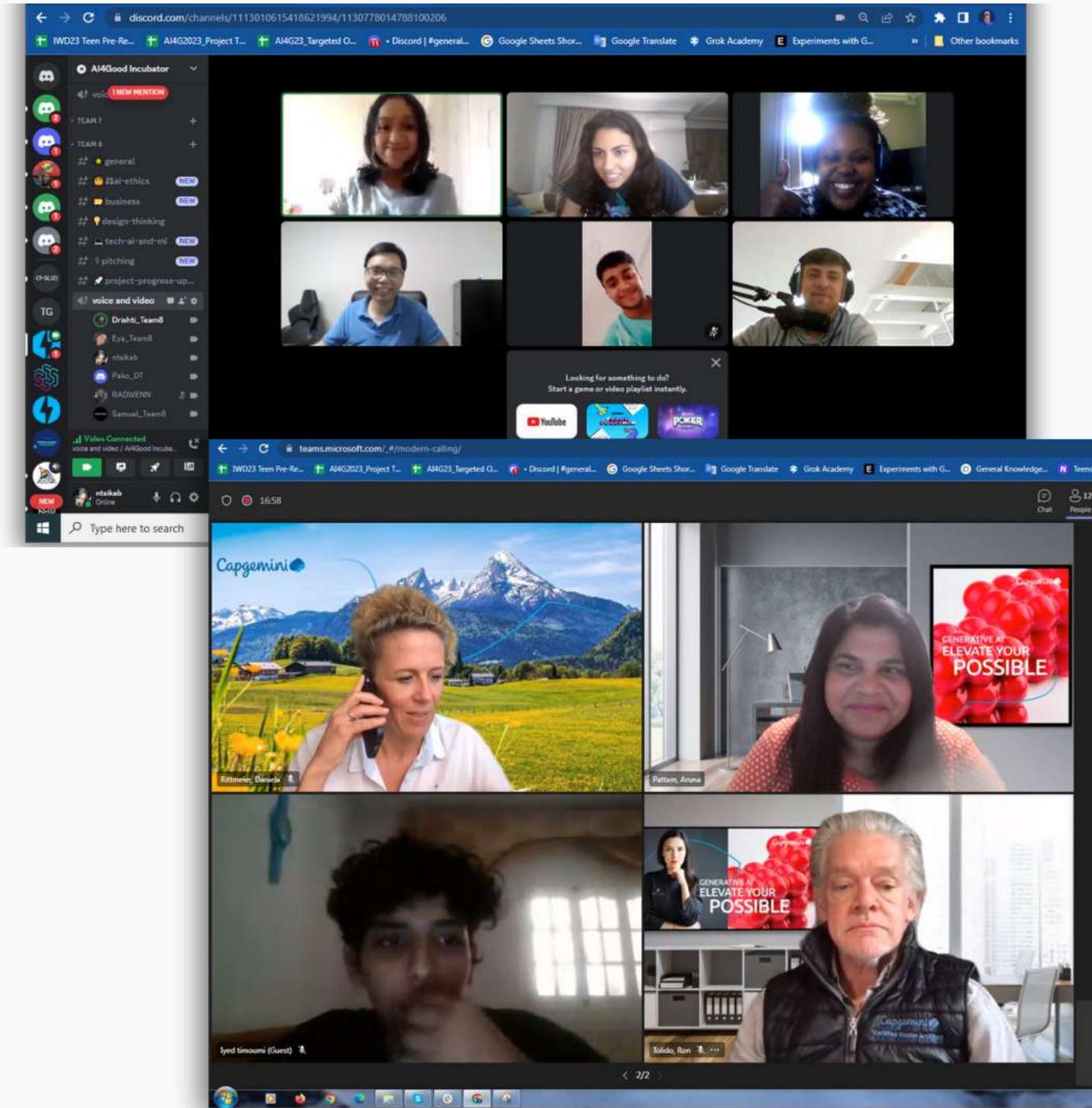
Geographically diverse participation



Showcasing the diversity of participant representation based on registered participants, the data is split by participant origin.

The largest portion of participants are African, making up an impressive 63.2% of the total, with North America representing the smallest proportion, at 4.4%. This analysis underscores the programme's global reach.

Impact in Action





Teens in AI

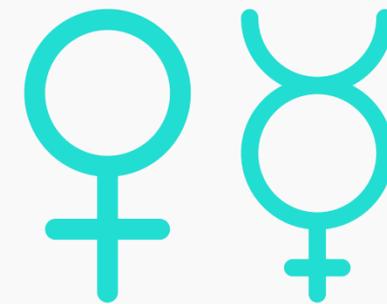
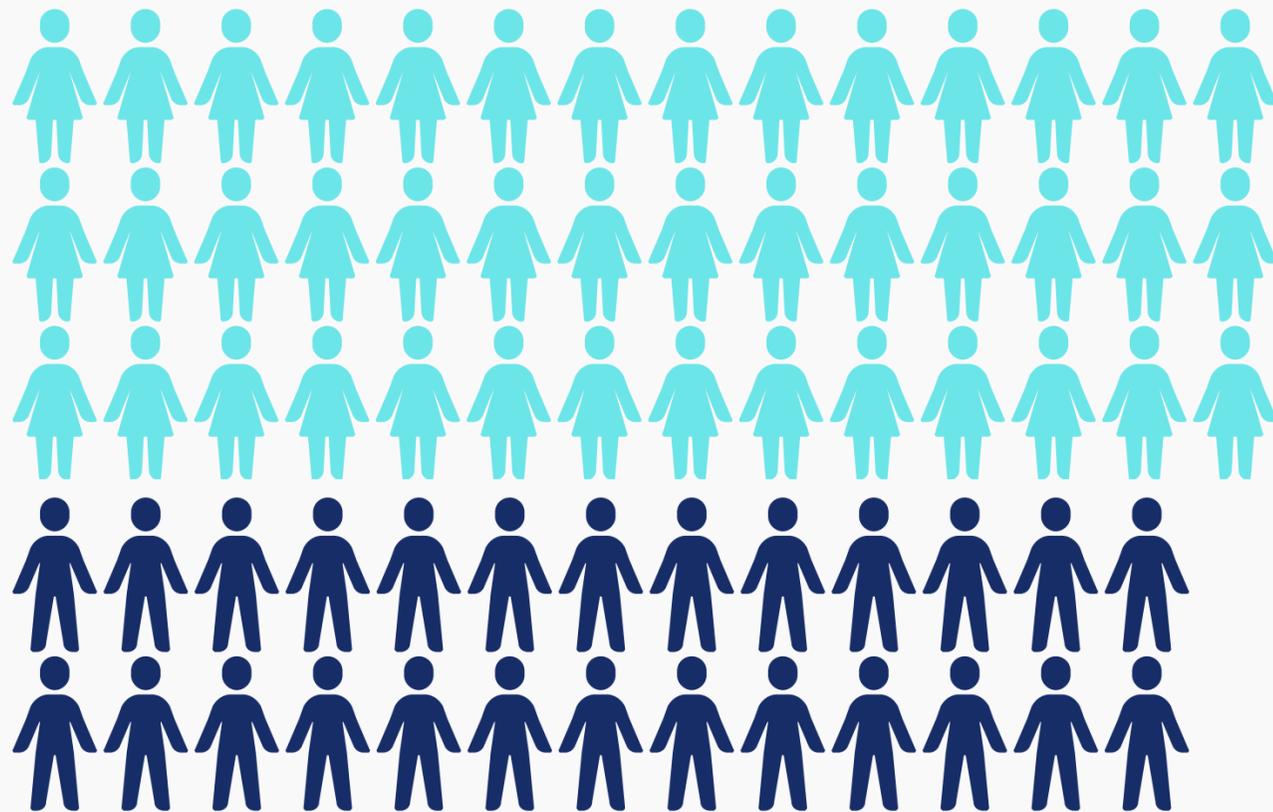
Diversity in Action

A focus on girls, non-binary and minorities

Diversity in Action

Female and non-binary

The AI4Good Incubator 2023 saw a total of **68 registered participants** from different parts of the world.



63%

identified as Female and Non-binary

... which is a

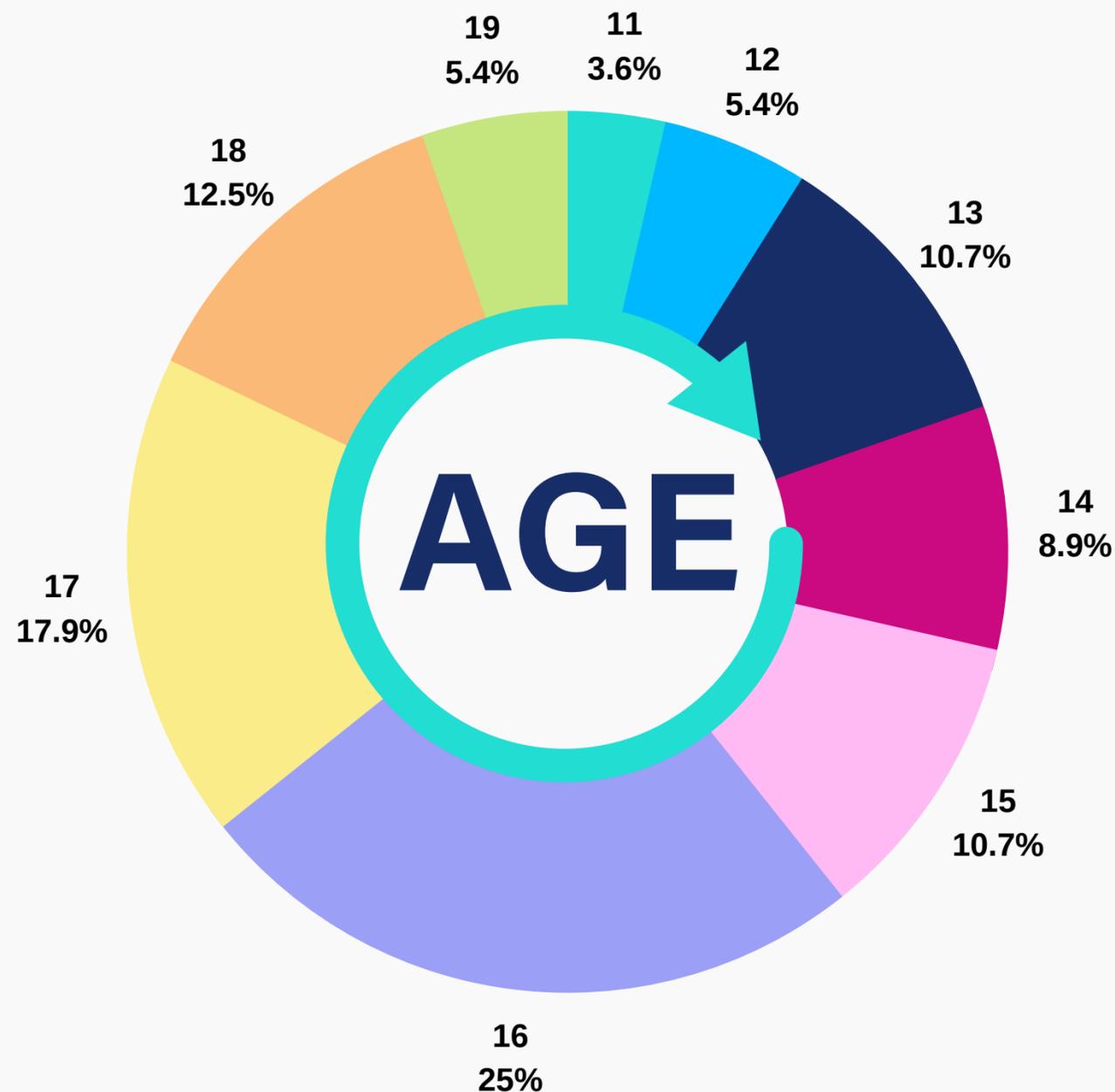
19%

increase from 2022



Diversity in Action

Age range



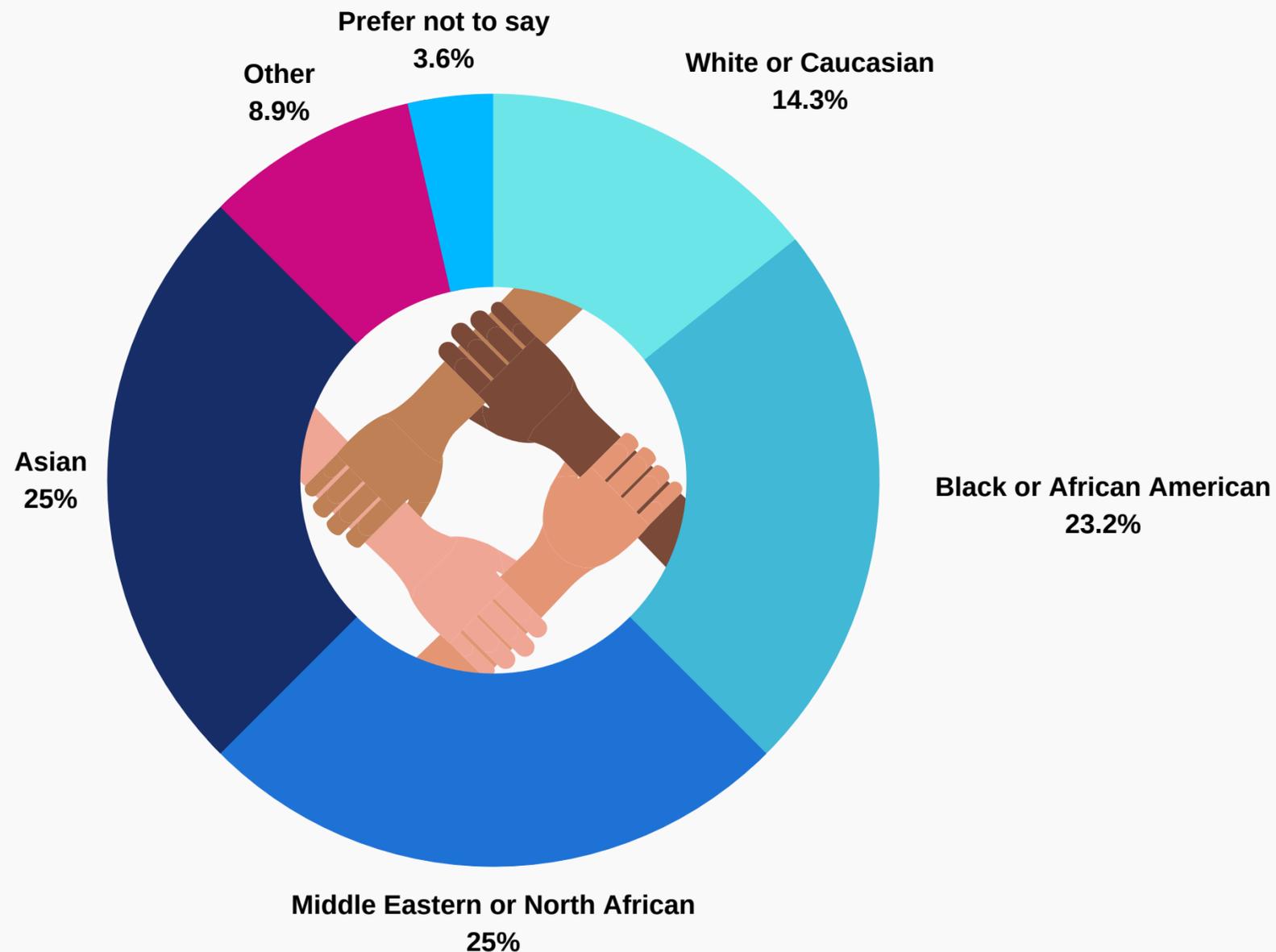
We had a mix of newcomers and alumni from past programmes, with those joining from age 11 through 18 - a significant cross-section.

Witnessing our alumni return to pursue further learning is consistently gratifying. The age spectrum displayed diversity, with 16 year olds making up 25% of total, underscoring significant enthusiasm. Conversely, the youngest group, aged 11, reflects an emerging curiosity in AI and technology.



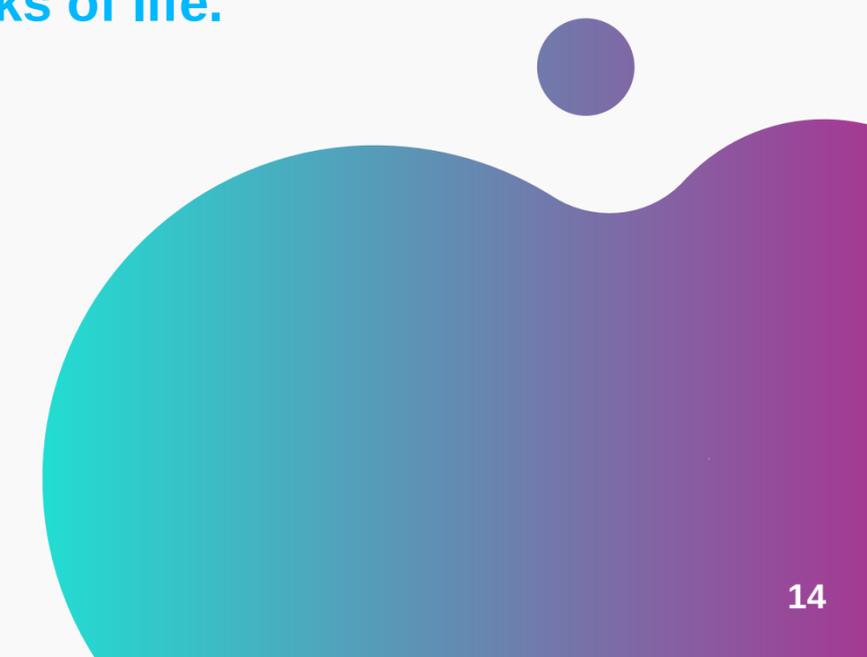
Diversity in Action

Ethnicities



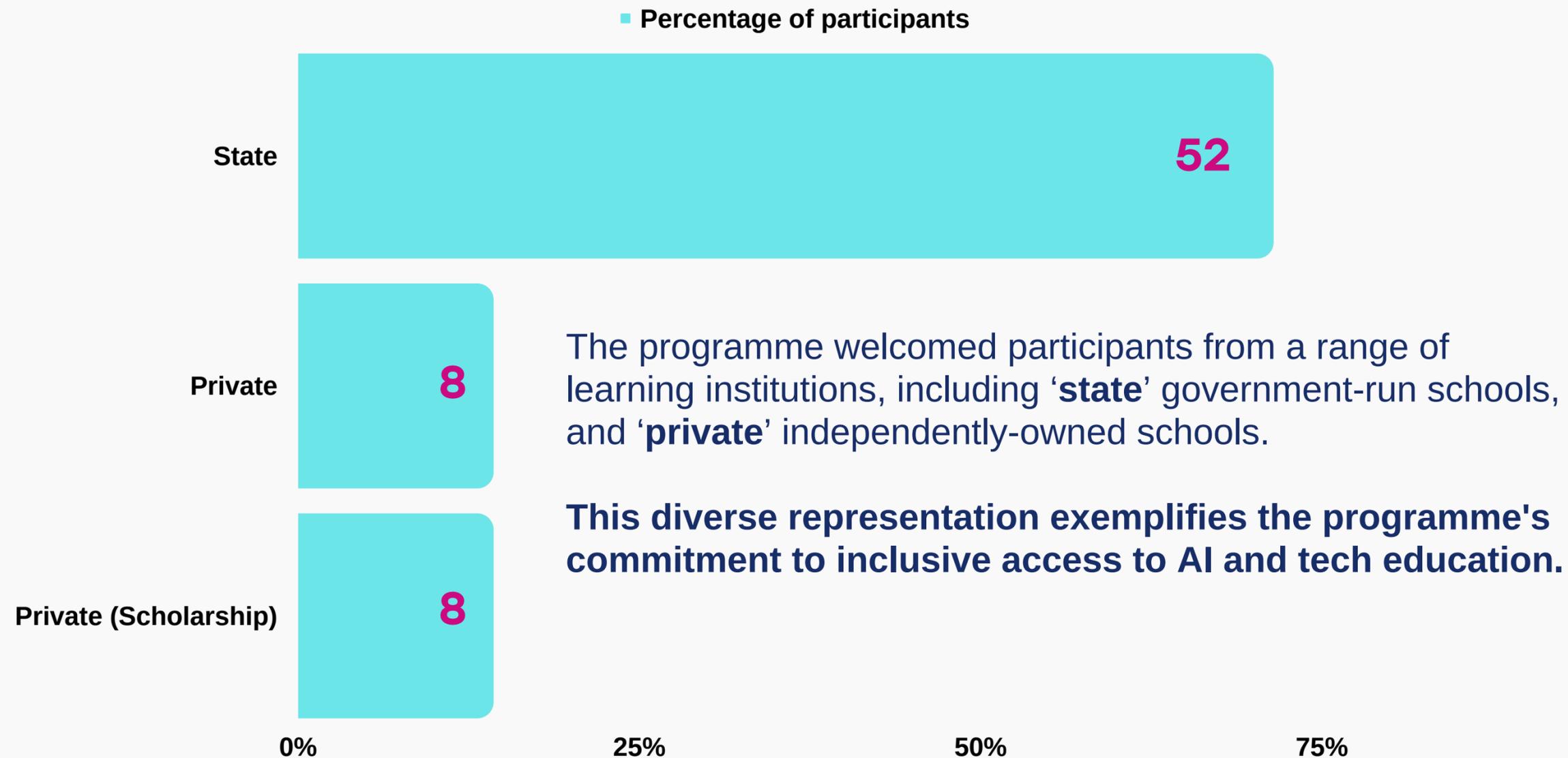
The programme's accomplishments in fostering diversity are vividly demonstrated by the active engagement of individuals representing a wide range of ethnicities. We were delighted to showcase the remarkable success at promoting inclusivity.

Our unwavering commitment to cultivating an environment of openness and acceptance is underscored by this richly diverse participation, reflecting our aligned dedication to embracing young people from all walks of life.



Diversity in Action

A focus on state-educated teens and those on scholarships





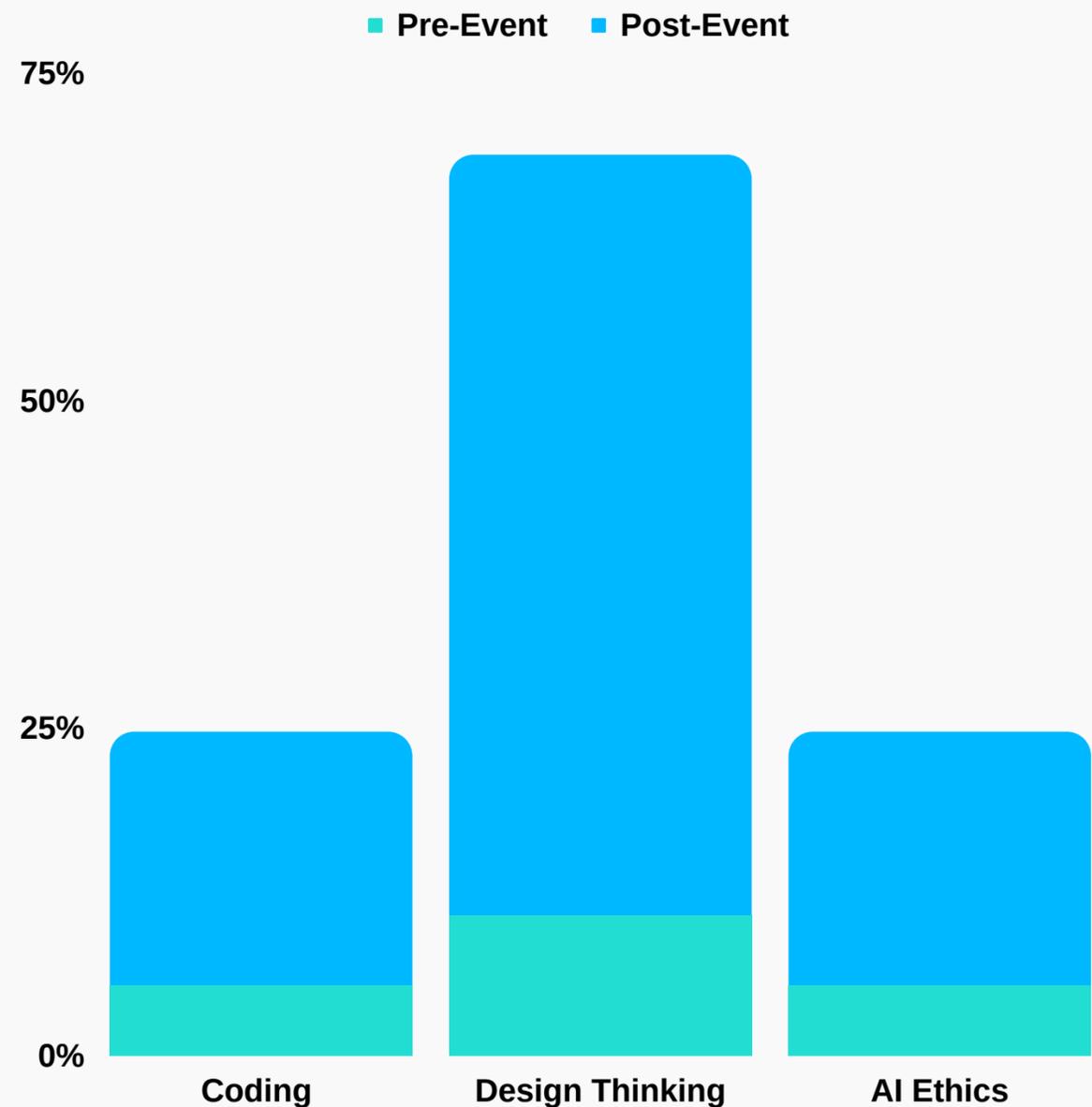
Teens in AI

Skills Assessment

Understanding participant self-assessment

Skills Assessment: 2023 programme

Technical

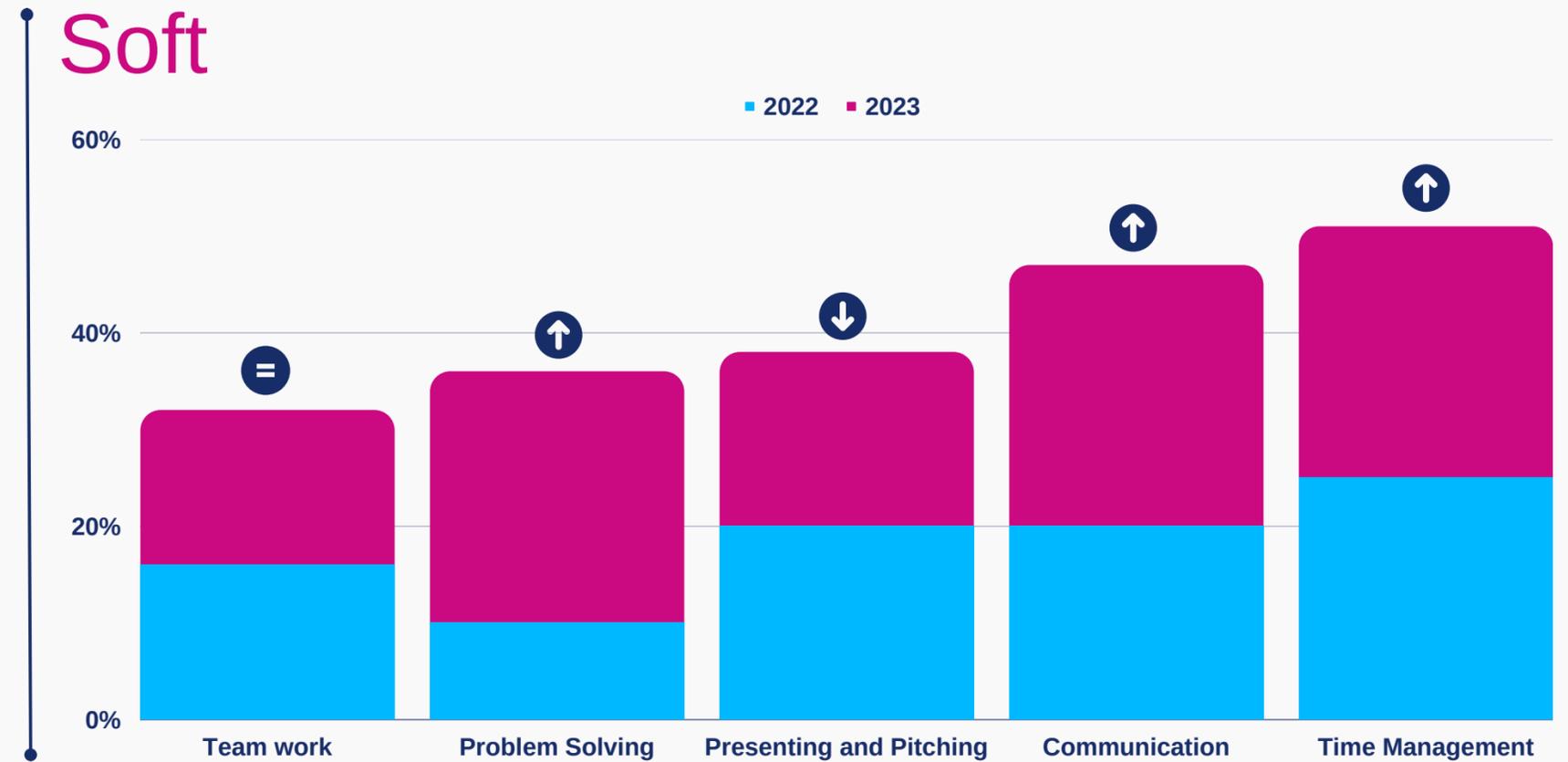
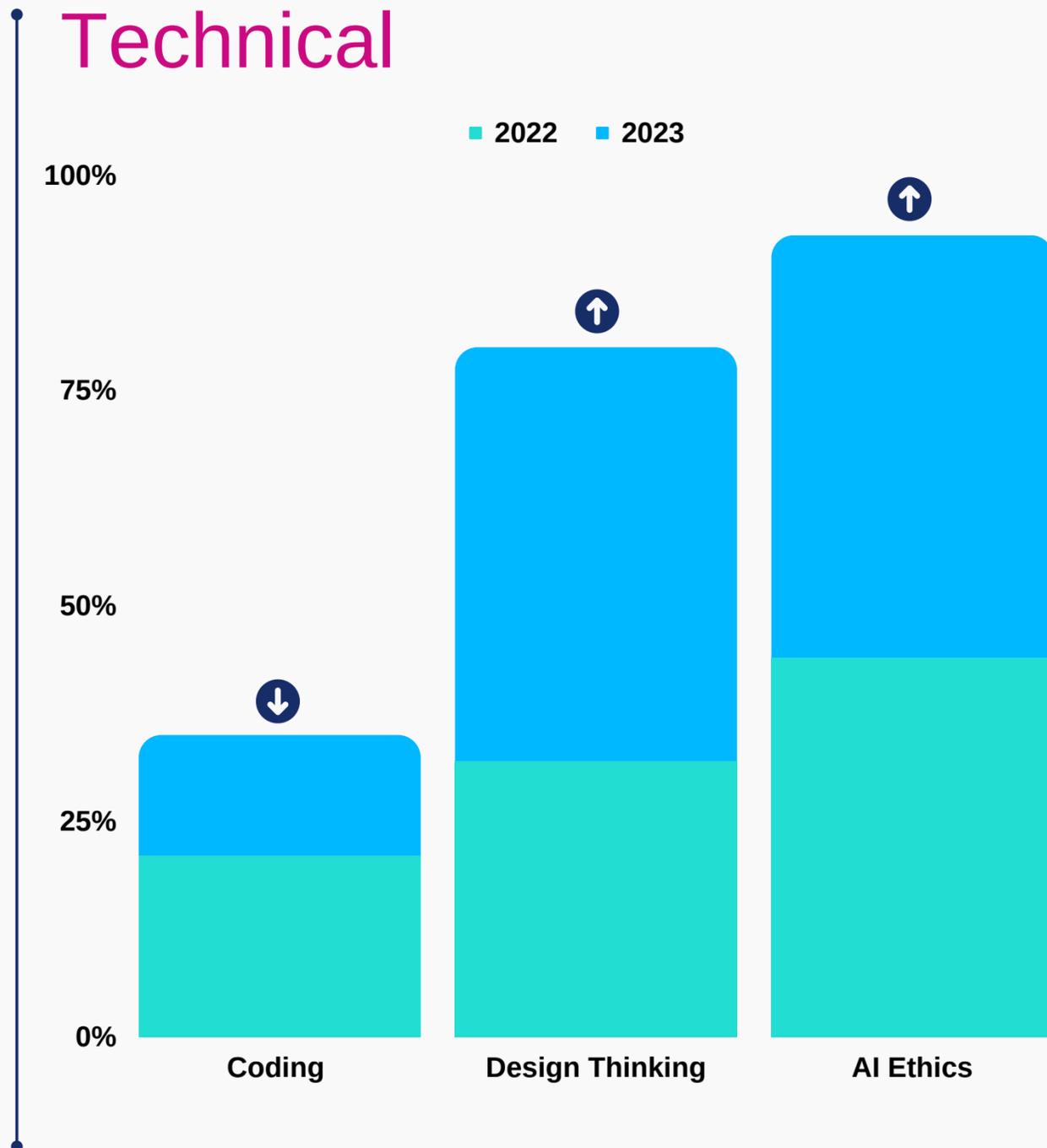


Soft



We provide participants with an opportunity to conduct self-assessments of their skills both before and after the programme, encouraging them to rate their proficiency in key areas based on programme subject matter.

Skills Assessment: Annual comparison



Based on participant self-assessments year-on-year, this comparison illustrates skills proficiency in key areas for 2022 and 2023.

Programme Satisfaction

84% participants in 2023 found the programme helpful, compared to 75% in 2022

- 68%** of participants expressed a **greater understanding of how tech/AI can be used in the world**
- 77%** of participants expressed that having participated in the programme, they have **greater understanding of the importance of ethics in tech/AI**
- 71%** of participants now believe that **AI/tech is an interesting field**
- 68%** of participants stated that they are now more **confident that the tech/AI field is for them regardless of background or gender**
- 55%** of participants expressed that they are now **certain that they want to pursue a career in tech/AI**
- 84%** of participants state that their experience was **‘Helpful’ and ‘Very Helpful’ in planning for their future**



Skills Assessment

Inspiring their future

Deliberating on and shaping a career path involves introspection and understanding.

The participants engaged in the AI4Good Incubator programme dedicated time to evaluating how their involvement has shaped their comprehension and passion for subjects related to tech and AI. They completed pre- and post-programme evaluation surveys which gave us the opportunity to compare the data shared here.



Mathematics

Before: **43%**
After: **48%**  **12%**



Design Thinking

Before: **38%**
After: **55%**  **45%**



AI / ML

Before: **46%**
After: **58%**  **26%**



Data Science

Before: **32%**
After: **52%**  **63%**



Skills Assessment

Mentor participation

Mentors play a significant role in the programme, bringing not only technical expertise but also practical knowledge of AI, tech, and business across different fields.

Their commitment enhances the experience and motivates participants to be the best they can be, providing the safe space where their thought process and creativity can flourish.



28

Total Incubator Mentors
across the programme





Teens in AI

Programme Highlights

“A life-changing programme

Programme Highlights

Participant consensus

“ It was **the most wonderful and best experience in our lives**, and I will not hesitate if I have the opportunity to participate in it again. I learned a lot of things that I did not know, and **this experience will make you a better person and develop your skills** in all fields.

~ Fatima, 17, Morocco

“ I will say this programme is **a life-changing programme** that is helping teenagers in all parts of the world to know about artificial intelligence and how it's going to help us in the coming future.

~ David, 17, Ghana

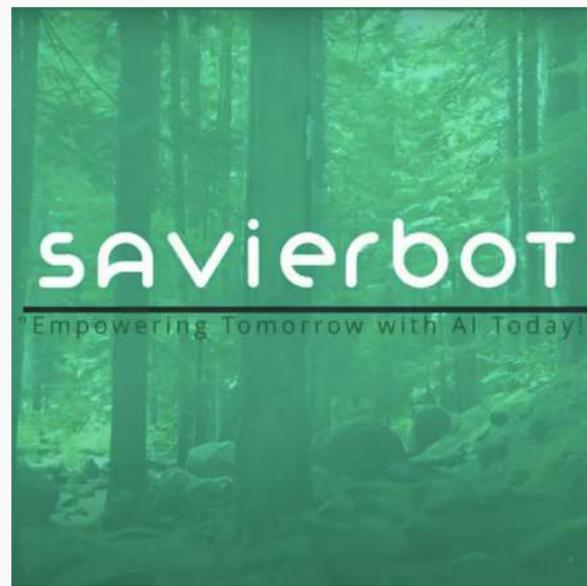
“ They [other teens] would have **the opportunity to develop so many skills they didn't even know were possible in 5 days!** I will tell them that they will be learning A LOT about artificial intelligence and how it can be used in the world!

~ Sara, 15, Tunisia



Programme Highlights

The winning teams



Winner

An advanced detection system that combats invasive species with incredible efficiency.

Team members:

Victoria, 16, Bulgaria
Sara, 16, Morocco
Akramjon, 16, Uzbekistan
Fatima-Ezzahra, 17, Morocco
Mohamed Chahine, 18, Tunisia



Runner Up

An innovative project that merges gaming excitement with real-world action.

Team members:

Mohamed Radouene, 18, Tunisia
Eya, 19, Tunisia
Drishti, 14, UAE
Samuel, 18, Germany



Our winners collectively came from six countries across Europe, Africa, Asia and the Middle East

Programme Highlights

How Mentors felt about their involvement and the programme

“ It was a great experience to work alongside the teens. I was literally **amazed to see the breadth of the ideas of the teens** and their out of this world commitment to the Incubator Program. **All facets of the program were very beautifully planned and well executed.**

~ Tapomoy Koley, Programme Manager - Data Scientist - Capgemini

“ Very happy to be involved in inspiring young people to think about the **great positive impact that technology can have on very important world issues.**

~ Ben Taylor, Graduate Machine Learning Engineer - Sage

“ I found myself looking forward to my scheduled mentorship sessions, **the boundless thought leadership from the youth was inspiring to experience.** I was honoured to supplement their journey by addressing their questions and sharing industry experience. **I am already looking forward to next year!**

~ Marleigh White, Prophix Solutions



Programme Highlights

Featured speaker views

“ We all have a role to play in making our world better for people and the planet. And as a young talent generation, mastering this technology is a must. Moreover, **we need these technologies to be in the hands of everybody to ensure diversity of thought, ethics, and avoid bias in the models we are producing.**

~ **Sandrine Daniel, Head of Centre of Excellence - Capgemini**

“ Although the world is changing rapidly around us, especially in respect to AI, **it's ultimately each of us, the scientists, the engineers, the dreamers, who are driving that change.**

~ **Ben Cunningham, Principal Machine Learning Engineer - Sage**

Programme Highlights

The Judges' voice

“ I am so excited that the teens have decided to join our AI Community. **As visionaries, and as dreamers, they can imagine uses for AI that empower and connect.** They are already present contributors to a legacy of AI that is in the making.
~ **Ben Cunningham, Principal Machine Learning Engineer - Sage**

“ I am in awe! The fact that they [participants] were so motivated to join such a programme and **in less than 5 days produced a high level of ideas** in their projects.
~ **Veronica Celis Vergara, CEO & Founder - Valumia & EnglightAID**

“ I was honoured to have been a judge to such **extraordinary talent**, diverse and geographically diverse but bound by their commitment and dedication!
~ **Philip Harker, VP of Advisory, Insight & Data - Capgemini**



Teens in AI

Engagement

Building brand values awareness

Engagement

Programme engagement across all channels



15,750
Impressions



3,419
Video views



3,850
Interactions



8,160
Teens emailed



1,695
Link clicks to News Pages



Sample engagement

Sage Foundation
3,638 followers
1mo •

Big shout out to our colleagues and partners who volunteered their time to be mentors, speakers and judges at the AI4Good programme last week.

After seeing some truly inspirational projects created by the participating teens, we wanted to say thank you for getting involved and helping shape the next generation of innovative thinkers!

#TeensInAI4Good23 #breakingdownbarriers #globalgoals #youthskills

Ben Cunningham, David Harrop, Surinder Sond, Tilly Barkway, Jonny Parker, Laura Stoddart, Ben Taylor, Eugen Iordanescu, Linbo Zhang, Amit Lulla, Pete Hanlon, Pako Chan, CPA, CA, CITP, Cristian Ciloci, CPA, CMA, Marleigh White

Teens in AI
5,833 followers
1mo •

Congratulations to the brilliant participants of #AI4GoodIncubator2023! These talented teens tackled the vital issue of Life on Land with their inspiring innovations. ...see more



AI4GOOD INCUBATOR

Winners

Platinum Partners Capgemini Sage



AI4GOOD INCUBATOR

DAY TWO Recap

2023 Challenges
What are the United Nations Sustainable Development Goals?

Define

Demo Day Judge
Philip Harker
Vice-President - Advisory, Insight & Data, Capgemini

Mentor
Arti Nokhai
Data & AI for Financial Services Lead NL, Capgemini

AI4GOOD INCUBATOR

AI4GOOD INCUBATOR

Demo Day Reminder
28 July 2023 11:45 (GMT)

Mentor
Laura Stoddart
Senior Data Scientist, Sage

AI4GOOD INCUBATOR

DAY ONE Recap

Understand

Platinum Partners Capgemini Sage

Amit Lulla • 3rd+
Senior Solutions Architect (SaaS/ISV) at Amazon Web Servi...
1mo •

+ Follow

I'm proud to be a Tech Mentor for this year's @Teens in AI #AI4GoodIncubator23! There is nothing more exhilarating than to be a part of shaping young minds with a keen interest in learning about the opportunities for social good that Artificial Intelligence offers!

Find out more here linktr.ee/TeensinAI

#ai4goodincubator #teensinai #teensinaisummer23 #globalgoals #tech4good

Sage Foundation
3,638 followers
2w • Edited •

As a Sage partner and mentor at this year's Teens in AI AI4Good Incubator, Pete Hanlon from Pinnacle shares his thoughts on the impact of the programme on our younger generation and the future of the tech industry. Hear what he had to say: <https://ow.ly/Wr6t50Pzim5>

#ai4good #youth #innovation #tech



“ Engaging with teenagers to drive positive change contributes significantly to moulding our future tech industry leaders. ”

Peter Hanlon,
Head of Design & UX Pinnacle

Sample engagement

Philip Harker • 2nd
Lead for Sustainability and Climate Change for Insights...
1mo • 🌐

Thank you **Teens in AI**, an inspirational event run with integrity, passion and authenticity that supported 8 teams of 3-5 TEENAGERS to think and solution to apply AI to help solve **#sustainability** and **#environment**. I was honoured to have been a judge to such extraordinary talent, diverse and geographically diverse but bound by their commitment and dedication! Wow!

Teens in AI
5,836 followers
1mo • 🌐

We are thrilled to introduce yet another one of our esteemed Demo Day Judges for **#AI4GoodIncubator2023!**

Meet **Philip Harker**, Vice-President - Advisory, Insight & Data at **Capgemini**. As a leader of a mastery team of consultants practicing data excellence, Philip's expertise is unmatched. He also serves as the Sustainability data lead, advocating for the vital role of data in promoting sustainability and purpose within organisations.

Join us on 28 July 2023, as Philip and other judges evaluate the exceptional projects crafted by our talented teen participants!

To read more about our partnership with **Capgemini**, click here:
<https://lnkd.in/d8JnUgWe>

#TeensinAI #AI4Good #Mentors #TechEducation



Raouia Ayed • 3rd+
Product owner BI / BIG DATA - Capgemini
1mo • 🌐

+ Follow ...

I am proud to have been a Design Thinking Mentor from 24 - 28 July **Teens in AI #AI4GoodIncubator23!** It's truly exhilarating to witness the dedication and creativity of teens as they explore the possibilities of Artificial Intelligence for biodiversity and environment. It was very inspiring, and I am impressed by the outstanding work they've done.

This mentoring journey has been incredibly fulfilling and inspiring for me personally .

I am grateful to **Capgemini** for making this wonderful partnership happen.

Find out more here 📩📩 linktr.ee/TeensinAI
#ai4goodincubator #teensinai #teensinaisummer23 #globalgoals #tech4good

Aruna Pattam • 3rd+
LinkedIn Top Voice AI 2023 | Head, Generative AI | Tho...
1mo • 🌐

+ Follow ...

Teens in AI - AI4GoodIncubator

I'm delighted to share that **Capgemini Data and AI** is joining forces once more with **Teens in AI** for the eagerly awaited **#AI4GoodIncubator2023**, aimed at encouraging and nurturing young tech enthusiasts.

In this super exciting initiative, I'm honored to serve as an AI Ethics Mentor.

It's a wonderful chance to guide, inspire, and engage with the budding AI pioneers of tomorrow, highlighting the vast potential of AI in creating meaningful social impact.

This is an endeavor that is as rewarding as it is stimulating!

Find out more here
<https://lnkd.in/guSF5vJ2>

#TeensinAI #TeensinAISummer23 #GlobalGoals #Tech4Good #AI4GoodIncubator

Karine Porto Myriam Chave Sheetal Sawhney Elena Sinel FRSA



Mentor
Aruna Pattam
Head – Generative AI Practice, APAC
Capgemini

Platinum Partners **Capgemini** **Sage**



Teens in AI

Alumni

How we support them and
where they are today

Alumni

How we are supporting our 2023 AI4Good Incubator alumni

The winning teams



Capgemini

The winning team have been invited to attend Capgemini's **Generative AI Launch Conference**, along with the invaluable opportunity to engage in mentoring sessions conducted by Capgemini's esteemed generative AI experts.



Sage

Our second-place winners were awarded vouchers worth £500, redeemable from Sage's partner, **Amazon**.

★ *Honourable Mention*



The AI4G2023 team, **CarbonXplore**, had the unique privilege of presenting their project to Capgemini's distinguished thought leaders, **Martijn van Schaik and Arti Nokhai**. They are also set to benefit from forthcoming opportunities such as a featured blog appearance and the potential collaboration with Capgemini's engineering division, **Frog**, to transform their prototype into a tangible reality.



How we are supporting our 2023 AI4Good Incubator alumni



Climate Change Challenge

The winners of this year's programme, team **Savierbot**, will take part in the global competition ahead of COP28 where they will present their winning project.

With invitations to:



#IWD GLOBAL HACKATHON



AIADVENTURES
Courses



Teens in Action Forum
Your Voice, Your Future



CogX Festival 2023

Participants based in London will have the opportunity to network and explore the world's biggest festival of AI and transformational tech with over 500 speakers ranging across keynote addresses, panel discussions and start-up showcases.

Alumni

Where are some of our past Incubator alumni today?



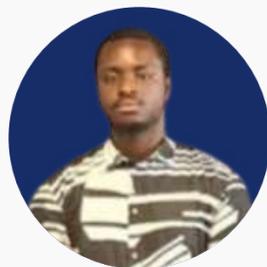
Bayzhan Mukatay

Originally from Kazakhstan, Bayzhan is currently an Undergraduate Researcher at Rice University, Texas who developed a method using AI/ML to reduce a sample of estimated cancer copy-number mutation histories to a point-estimate phylogenetic tree with 99.67% accuracy. Bayzhan was also a course instructor for the 2023 AI4Good Incubator programme.



Mutsa Pearl Dumbura

Mutsa Pearl, from London, UK, has excelled in her A Levels, earning A*A*A*A grades in Maths, Further Maths, Economics, and Physics. She will now commence a degree apprenticeship at JP Morgan Chase & Co., showcasing her strong academic achievements and commitment to growth.



Michael Adjei

Michael, from London, UK, has accomplished a remarkable feat, attaining a First Class Honours in Computer Science for his Bachelor's degree. As a recipient of the Amos Bursary Scholarship, he has demonstrated his dedication to excellence. His journey continues to shine brightly as he prepares to join Citi Bank as an incoming Software Engineer, showcasing his strong potential in the field.





Teens in AI

Setting the Benchmark

Editor's Note

Setting the benchmark

Editor's Notes

Having only just recently joined Teens in AI and experiencing the Incubator programme for the first time, I looked forward to reviewing the data when comparing 2022 and 2023. **The observed trends and metrics paint a picture of substantial advancement and positive multi-dimensional impact.**

One of the most striking shifts has been the surge in female and non-binary participation, with an impressive increase of 19% from 2022 to 2023, marking a significant step toward fostering diversity and inclusivity. The expansion of programme locations from 10 in 2022 to 18 in 2023 further signifies its widening reach and impact.

A detailed breakdown of skills enhancement reveals noteworthy dynamics in both technical and soft skills. Notable increases in technical skills in 2022 compared to 2023, underscore the fluctuating nature of skill acquisition trends. Similarly, the shifts observed in soft skills such as teamwork, problem-solving, presenting and pitching, communication, and time management, exhibit a nuanced trajectory of skill development over the assessed years.

One particularly encouraging highlight is the upward trend in the perceived efficacy of the programme in shaping participants' future careers, with an increase from 75% in 2022 to an impressive 84% in 2023. This not only underscores the Incubator's relevance but also its growing impact on participants' professional trajectories.

A further insight that stands out is the evolving nature of the top skills that participants feel they have improved through their engagement. The shift from 2022's emphasis on Project Management, Leadership, and Design Thinking, to 2023's Design Thinking, Project Management, and the Role of AI in Society, suggests a responsive alignment with the changing landscape of skills essential for personal and professional growth.

Continue overleaf



Bev Chislett
Head of Marketing

Setting the benchmark

Editor's Notes

This shift lends itself to the change in talent requirements aligned with industry trends. The emergence of a new role, 'AI Prompt Engineer', is testament to this. According to the World Economic Forum, prompt engineering is essentially the asking of the right questions to achieve the desired result, which is "critical for generating high quality outputs from large language [generative AI] models". **Training will need to evolve to meet this demand. The future is already here; we need to keep up.**

These trends we have seen not only reflect the Incubator programme's adaptability and resonance with young people, but also serve as a compass guiding its future enhancements and evolution. The journey from 2022 to 2023 signifies not just growth but also our commitment to nurturing holistic skill sets crucial for thriving in an ever-evolving world.

Together, we are igniting change - one teen at a time. It takes a village. Thank you for being part of ours.

Bev Chislett

Head of Marketing, Teens in AI

PS: Do read on for more information about our Programmes and how we deliver impact, our 'Why', our global reach and impact in numbers since 2021.



estimates 97 million new jobs will emerge by 2025 to enable humans and machines to work together.

Stating that:

44% of workers' core skills are expected to change in the next five years

By 2025, AI and ML specialists will be the second most in-demand **Jobs**, second only to Data Scientists and Analysts

By 2027, Analytical Thinking, Creative Thinking, AI and Big Data will be top in-demand **Skills**





Teens in AI

Our Programmes

How we deliver impact



Our Programmes



Run February to April annually, our global online event where teens aged 12-18 come together to collaboratively solve a real-world problem through the use of AI and Data Science for social good. [Get involved here](#)



Run in August annually, the Incubator is a global 5-day virtual bootcamp style programme where teens aged 12-18 work in teams to build a tech-based project, inspired by a climate-related United Nations Sustainable Development Goal. [Get involved here](#)



Our online Courses empower teens to discover their passion for AI. These self-paced courses foster skills in data analysis, programming, and problem-solving, helping teens become future change leaders. [Find out more here](#)



A virtual, monthly event series for teens aged 12-18 where global AI leaders empower and engage young minds in thought-provoking conversations and discussions centred around AI-based topics. [Find out more here](#)

Our Bespoke Solutions

Our tailored consultancy solutions help corporates, governments, and educational institutions meet community-driven goals, offering support to navigate and achieve strategic objectives effectively. [Find out more here](#)





Teens in AI

Our impact
In numbers



Our Global Reach

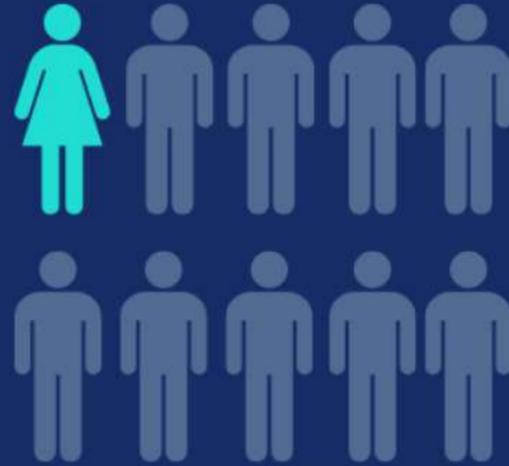


Our Why



26%

of the global data and AI roles are filled by women



<20%

of Artificial Intelligence professors and/or teachers are women



Bias & Discrimination

AI can discriminate on the basis of race, gender, and age.



2%

of the workforce is Black

EIGHT PERCENT

of Fortune 500 companies CEOs are Women

22%

of professionals in AI globally are female



63 PERCENT of data scientists are worried about bias programmed into AI

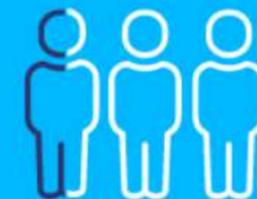


4%

of the workforce is LatinX



only 18% of the authors at leading AI conferences are women



< 1 in 3

female students choose to study STEM fields, globally

36%

of the 'facts' used by AI contain bias

Our Impact since 2021

We're not just dedicated to increasing diversity in tech.
We're striving for social impact through AI.





Teens in AI



teensinai.com

