AI SKILLS FOR THE FUTURE OF WORK

A Global Skills Academy Session

KEY POINTS

01

Transformative Impact of AI on Future Work Trends

02

Exploring Essential AI Skills for Future Employability

03

Promoting Inclusive and Equitable Access to AI Skills Training

TRANSFORMATIVE IMPACT OF AI ON FUTURE WORK TRENDS

AI-Driven Automation and Augmentation

Addressing Job Polarization

Emphasizing Dynamic Capabilities

EXPLORING ESSENTIAL AI SKILLS FOR FUTURE EMPLOYABILITY

Advanced Technical Competencies

Data Literacy
Machine Learning and AI Proficiency
Programming Skills

Integral Soft Skills

Complex Problem Solving and Critical Thinking
Emotional Intelligence and Adaptive Learning

PROMOTING INCLUSIVE AND EQUITABLE ACCESS TO AI SKILLS TRAINING

Educational Reform with Technological Integration

Enhancing Industry-Academia Collaboration

Fostering Lifelong Learning and Digital Inclusion

AI SKILLS FOR THE FUTURE OF WORK

THANK YOU!

IBM **SkillsBuild**

IBM SkillsBuild in Cooperation with Global Skills Academy

Building Skills in Artificial Intelligence with IBM SkillsBuild

IBM SkillsBuild is...

— A program that includes an online platform with customized practical learning experiences available for:

- **Secondary School Students and Educators**
- **Academia Students and Faculty**
- **Adult Learners**

— Accessible **workplace skills** and training on **technological hot topics** such as:

- Artificial Intelligence
- Cybersecurity
- Data Analytics
- Programming
- Project Management
- Sustainability

IBM **SkillsBuild**

Our footprint

Free
Access

1000+
Courses

20
Languages

Our offering

Technology
Training

Personalized
Learning Paths

Verified
Digital Credentials

Enhanced program

Partnerships
Around the globe

Learning Paths
Aligned to real job roles

Volunteer support
From local IBMers

Guided Learning Experiences

- Combine self-paced, customized learning pathways with live virtual instruction and summative capstone projects to enable learners to practice their skills in a simulated work activity.
- GLEs include:
  - Flipped classroom style learning & encouragement
  - Live virtual sessions, conversation & live labs
  - Technical assistance “office hours”
  - Simulated work activity capstone project
  - Career conversations with IBM volunteers
  - Community & discussion board
- 4- & 10-week sessions in analytics, AI and cybersecurity, each engaging between 1k-6k learners

IBM **SkillsBuild**

Focus on Artificial Intelligence Fundamentals

4- week & 10- week guided learning cohorts in AI

Learners will:

- Understand how AI makes predictions, understands language and images, and learns
- Apply machine learning principles in a project
- Create algorithms, gaining hands-on experience writing basic code
- Build and test a machine learning model
- Create applications using OpenAI and IBM Watson
- Integrate Text-to-Speech, Speech-to-Text, and Natural Language Process (NLP) into an application
- Tips on how to find your own career in artificial intelligence

https://skillsbuild.org/

Digital Credential in AI Fundamentals

Benefits for learners

- AI concepts: natural language processing, computer vision, machine learning, deep learning, chatbots, and neural networks
- Ethical AI
- Applications of AI
- Running a model in Watson Studio
- Jobs outlook in fields using AI
- Skills required for success in various roles in the domain

We are building confidence as well as skills...

Fawaz Alharbi

Testimonial: The 'Data Analytics Fundamentals' course from IBM exceeded all my expectations. The instructors were incredibly knowledgeable and made difficult topics accessible. The hands-on projects were particularly engaging, allowing me to apply data analytics techniques in practical scenarios. This course has significantly enhanced my analytical skills and opened up new career opportunities for me. I highly recommend it to anyone serious about advancing their career in data analytics

Q: What was your motivation for attending the course?

A: One day becoming data analyst/data scientist›

Jude Achana

Testimonials: I am thrilled to share my thoughts and experiences after completing the Data Analytics Fundamentals course. The journey has been incredibly rewarding and enlightening.
Throughout the course, I gained a solid understanding of data analytics principles, tools, and techniques. The curriculum was well-structured, and the hands-on projects were particularly beneficial in applying theoretical knowledge to real-world scenarios. These projects not only enhanced my technical skills but also boosted my confidence in handling data-related challenges.

Sara Sunti

Testimonials: "The Data analytics Fundamentals course was really interesting. It allowed me to acquire concrete knowledge about the world of data analysis and the platforms through which it is possible to carry out a multitude of activities related to the study of data. It was a well-crafted, well-structured and well-managed course. The division into informative and interactive modules was greatly appreciated by me and allowed me to really verify the skills acquired, always counting on the help of the team. The team is very knowledgeable and very helpful. A wonderful course."

Q: What was your motivation for attending the course?

A: I was very interested in studying data but before this course I had never explored this interest in depth. the work I would like to do would find a lot of help from the use of data analysis, which is why I started the course.

Agatah Kimanzi

Testimonials: IBM SkillsBuild is just the best. The materials and the content plus the tutors are explicit. The Data analytics virtual course was just exceptional, and I had a percentage higher confidence in my career. I am currently pursuing Economics and I intend to pursue a master's in economics and data analytics. Definitely, IBM SkillsBuild gave me an edge.

Q: How will this course impact your professional aspirations and/or career?

A: I am more confident in what I have always wanted to do now.

Huawei ICT Academy

A Global Talent Ecosystem

HUAWEI ICT Academy

Member of Global Education Coalition launched by UNESCO

unesco

GSA-Huawei Collaboration

1. UNESCO GSA-Huawei ICT Academy Digital Skills Learning Project
2. GSA-Huawei ICT Competition 2023-2024

HUAWEI

Huawei ICT Academy

A brief overview

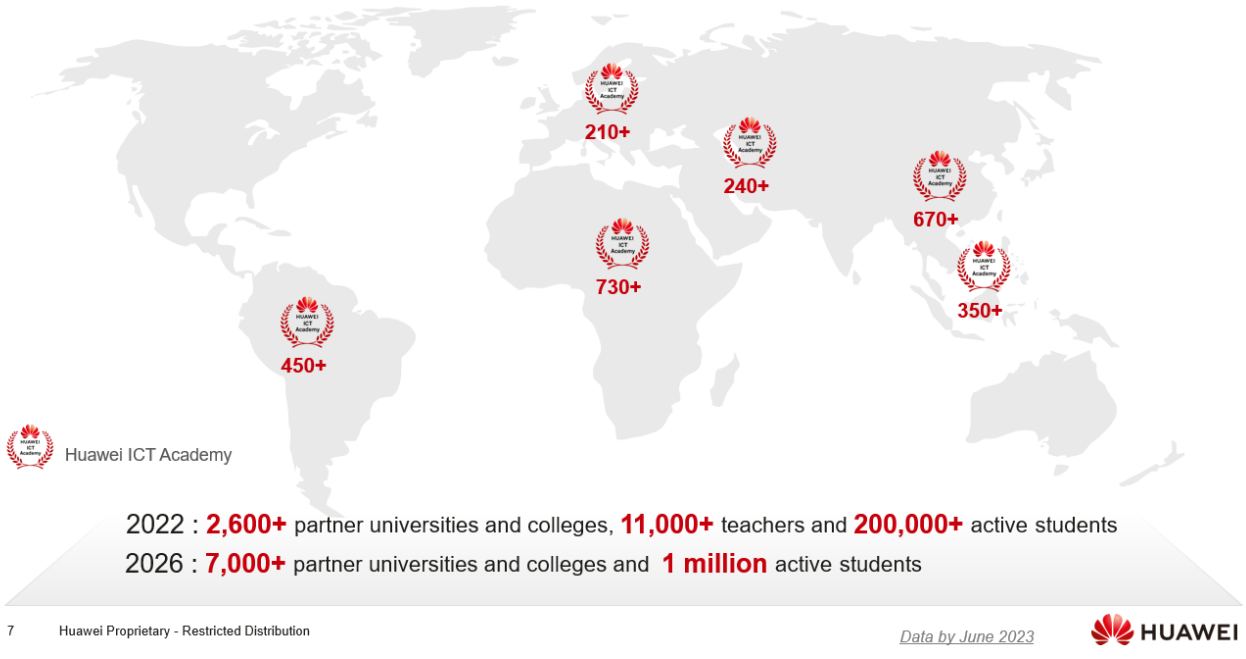
https://e.huawei.com/en/talent/portal/#/

https://www.huaweiacad.com

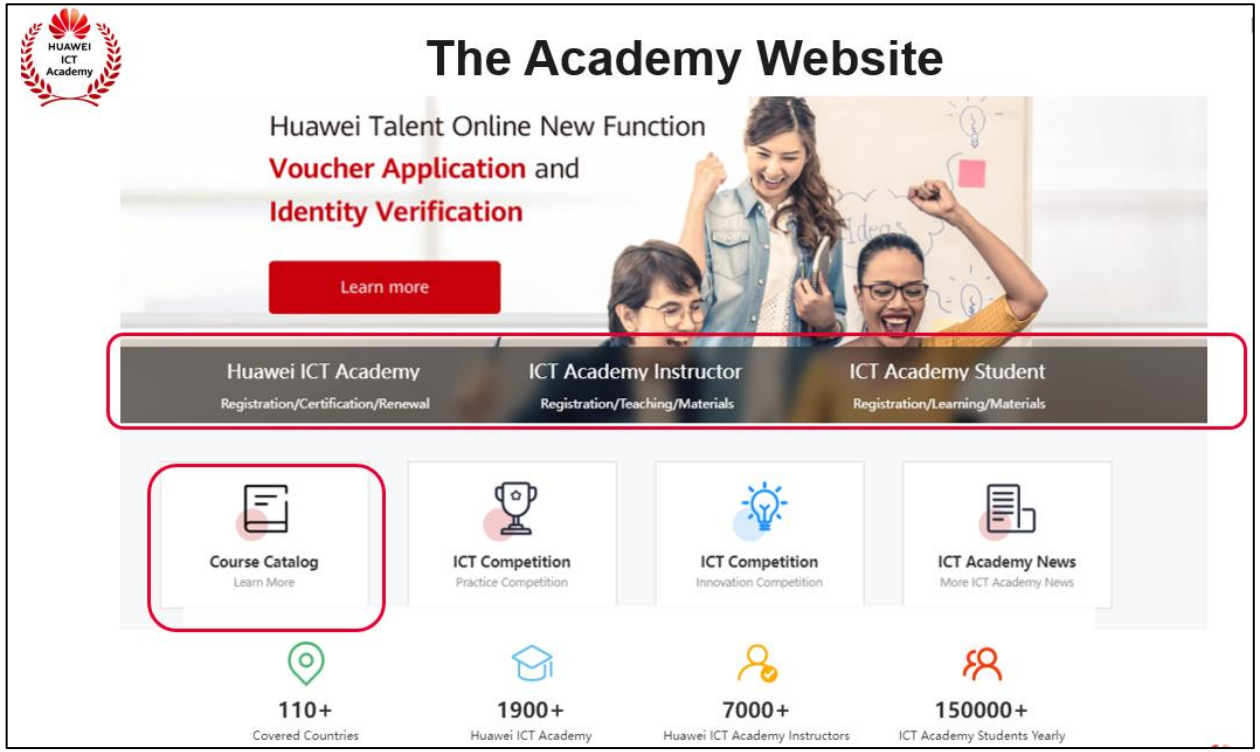
https://e.huawei.com/en/talent/ict-academy/#/home

Member of Global Education Coalition launched by UNESCO

Further develop Huawei ICT Academy and promote digital inclusion



Data by June 2023



- Global Educational Programme
- Designed for Academia and Students
- Provides free learning resources and simulation tools for teachers and students
- Promotes ‘Digital’ learning

Designed to address:

The global Digital and ICT Skills Gap

Started in Western Europe in 2015:

Huawei Education Ecosystem

Member of Global Education Coalition launched by UNESCO

A Bridge between Industry and Academia

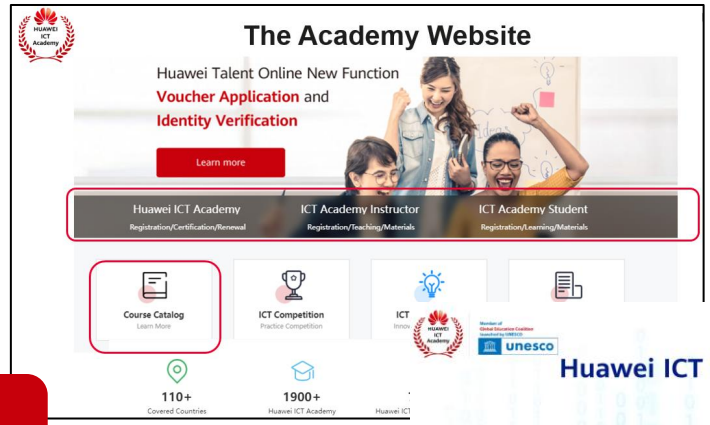
Aiding to fill the Global Digital Skills Gap

Industry

Academia

Build Partnerships

Industry Knowledge for Academia



Increase Talent Pool

Global Industry Certifications

Huawei Curricula – Huawei Course Catalogue

Huawei ICT Academy Course Catalog

Academy Curriculum classification

General Courses

For students who'd like to start exploring opportunities in tech

- No requirements for students' majors
- Free of charge
- Usually self-study
- 2 – 4 lessons/course

Professional Courses

For students who'd like to acquire the practical skills for entry-level technical positions

- Closely related to Huawei certifications that are widely recognized across industries
- Usually instructor-led and about 32-128 lessons per course
- Combination of hands-on practice and interactive experience

Correspondence Reference Table of College Majors/Courses and Huawei ICT Academy Courses

No.	Subject Specialty	Basic/Core/Elective Courses	Huawei ICT Academy General Courses											Huawei ICT Academy Professional Courses						
			Computer Network	Information Representation and Data Organization	Data Management and Analytics	Search and AI	Overview of AI	Development and Basic Concepts of Cloud Computing	Cloud Advanced	Introduction to 5G	5G Network Architecture and Key Technologies	Overview of IoT Technologies	Algorithm and Program Design	Data Communication and Network	Principles and Applications of WLAN	5G Network and Applications	Data Storage	Principles and Applications of Cloud Computing	Internet of Things Technology and Applications	Artificial Intelligence Technology and Applications
1	General Courses	Computer Basics	●	●																
2	General Courses	Introduction to Artificial Intelligence				●	●													●
3	General Courses	Python programming																		
4	General Courses	Operating System																		
5	Computer Science and Technology	Introduction to Computing	●	●	●								●							
6	Computer Science and Technology	Principle of Computer Composition	●																	
7	Computer Science and Technology	Computer Architecture	●			●														
8	Computer Science and Technology	Computer Network	●			●														
9	Computer Science and Technology	Network and Computing	●			●														
10	Computer Science and Technology	Artificial Intelligence				●	●													
		Principles of																		

Technical Direction	Course Name (English)	Version	Release Date	Course Type	Chinese	English	French	Arabic	Portuguese	Spanish	German	Japanese	Korean
Datacom	HCIA-Datacom	V1.0	2020/4/18	Certification Course	✓	✓	✓	✓	✓	✓	✓		
Datacom	HCIP-Datacom-Core Technology	V1.0	2020/10/20	Certification Course	✓	✓						✓	
Datacom	HCIP-Datacom-Advanced Routing & Switching Technology	V1.0	2020/10/20	Certification Course	✓	✓						✓	
Datacom	Data Communication and Network	V1.0	2020/12/1	Professional Course	✓	✓	✓	✓	✓	✓	✓	✓	
Datacom	Computer Network	V1.0	2021/12/31	General Course	✓	✓	✓	✓	✓	✓			
AI	HCIA- AI	V3.5	2022/12/30	Certification Course	✓	✓	✓	✓	✓	✓	✓		
AI	Artificial Intelligence and applications	V3.0	2021/3/29	Professional Course	✓	✓		✓					
AI	Machine Learning	V1.0	2021/3/23	Professional Course	✓								
AI	Deep Learning	V1.0	2021/12/22	Professional Course	✓								
AI	Python Program Design	V1.0	2022/1/3	Professional Course	✓								
AI	Overview of AI	V1.0	2021/8/24	General Course		✓							
AI	Search and AI	V1.0	2021/10/28	General Course	✓	✓	✓	✓	✓	✓			
Cloud Computing	HCIA- Cloud Computing	V5.0	2022/8/1	Certification Course	✓	✓	✓	✓	✓	✓	✓		
Cloud Computing	Development and Basic Concepts of Cloud Computing	V1.0	2022/12/23	General Course		✓			✓				
Cloud Computing	Cloud Advanced: Architecture and Technologies	V1.0	2022/12/21	General Course		✓							
Cloud Computing	Principles and Applications of Cloud Computing	V4.0	2021/11/29	Professional Course	✓	✓							
Security	HCIA-Security	V4.0	2022/5/31	Certification Course	✓	✓	✓	✓	✓	✓	✓		
5G	HCIA-5G	V2.0	2021/6/8	Certification Course	✓	✓	✓	✓	✓	✓	✓		
5G	5G Basics: What it's all about	V1.0	2022/05/17	General Course		✓			✓				
5G	5G Network Architecture and Key Technologies	V1.0	2022/12/21	General Course		✓							
5G	5G Network and Applications	V2.0	2021/11/29	Professional Course	✓	✓							
Cloud Service	HCIA- Cloud Service	V3.0	2021/9/30	Certification Course	✓	✓	✓	✓	✓	✓	✓		
Cloud Service	Cloud Service Management and Application	V3.0	2022/1/3	Professional Course	✓								
WLAN	HCIA- WLAN	V3.0	2020/12/30	Certification Course	✓	✓							

HCIE - Huawei Certified Internetwork Expert

HCIP - Huawei Certified ICT Professional

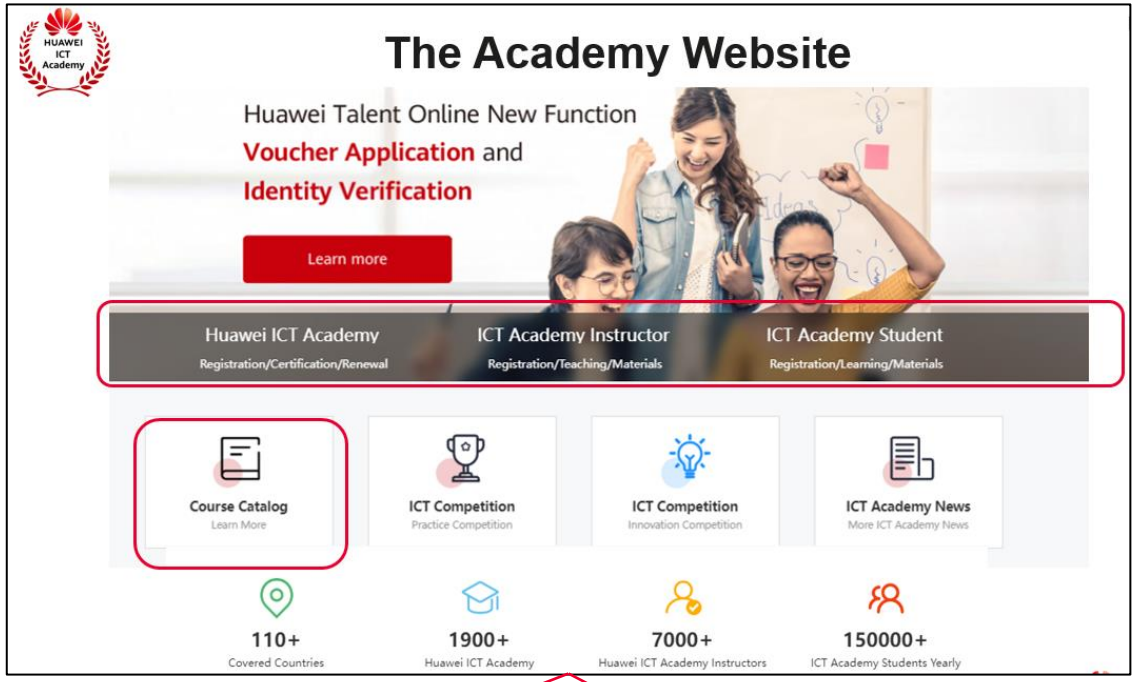
HCIA - Huawei Certified ICT Associate

For each Technology direction there are:

1. General Courses
2. Professional Industry Certification Courses
   (HCIA/ HCIP Certification Courses)

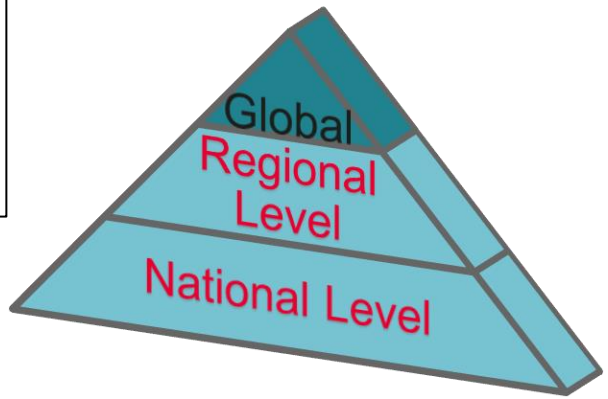
HUAWEI ICT Academy

1. UNESCO GSA-Huawei ICT Academy Digital Skills Learning Project



Member of
Global Education Coalition
launched by UNESCO

https://e.huawei.com/en/talent/news/#/details?consultationId=4177



UNESCO GSA-Huawei ICT Academy

- Widen participation – Learning resources available via GSA partners network
- Cutting-edge Learning Resources accessible by ALL

UNESCO GSA-Huawei ICT Competition

- Initial pilot project with Europe Region
- Jointly promote and run the ICT Competition at National and Regional Levels

https://e.huawei.com/en/talent/news/#/details?consultationId=4177

unesco Quick Links

The training course in detail

Programme structure

The Huawei ICT Academy offers enormous digital training opportunities based on its industrial expertise in fields such as 5G, cloud service, cloud computing, storage, AI, IoT, Datacom, Big Data, WLAN, security, and intelligent computing.

In particular, the UNESCO Global Skills Academy-Huawei ICT Academy program is organized in two sections:

- General courses: 12 learning modules, providing an introductory overview to the latest technology trends
- Professional courses: 7 learning modules, giving more in-depth knowledge to each of the technological topics.

Learners can monitor their learning progress through the Huawei Talent platform automatically. In an instructor-led learning module, instructors can further track student progress with administrator access. Furthermore, course completion certificates and electronic badges are issued to encourage ICT Academy students to complete their studies and demonstrate their learning achievements.

Learning paths / courses / flagships

The free UNESCO Global Skills Academy- Huawei ICT Academy learning program is available in 5 languages: English, Spanish, French, Portuguese, and Arabic.

Access full course catalogue at Huawei ICT Academy

Join the annual Huawei ICT Competition

Training capacity

Unlimited

Target population

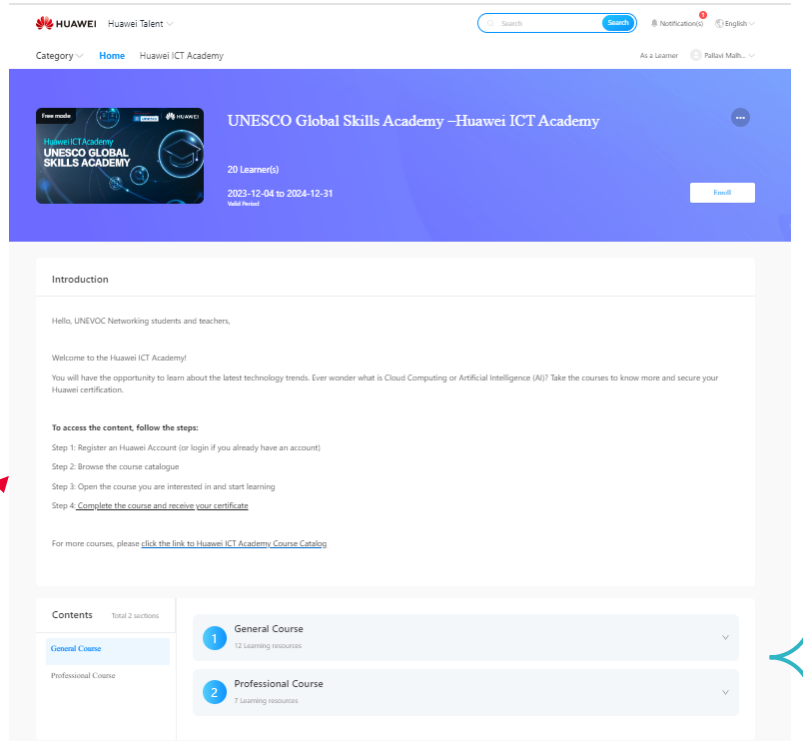
Students, trainers, job seekers, entrepreneurs

- General courses: self-learners, lifelong learners, TVET beginners, national-level ICT literacy improvement of teachers.
- Professional courses: TVET students, college teachers, industrial practitioners, post-secondary students, higher education students, lifelong learners.

Prerequisites

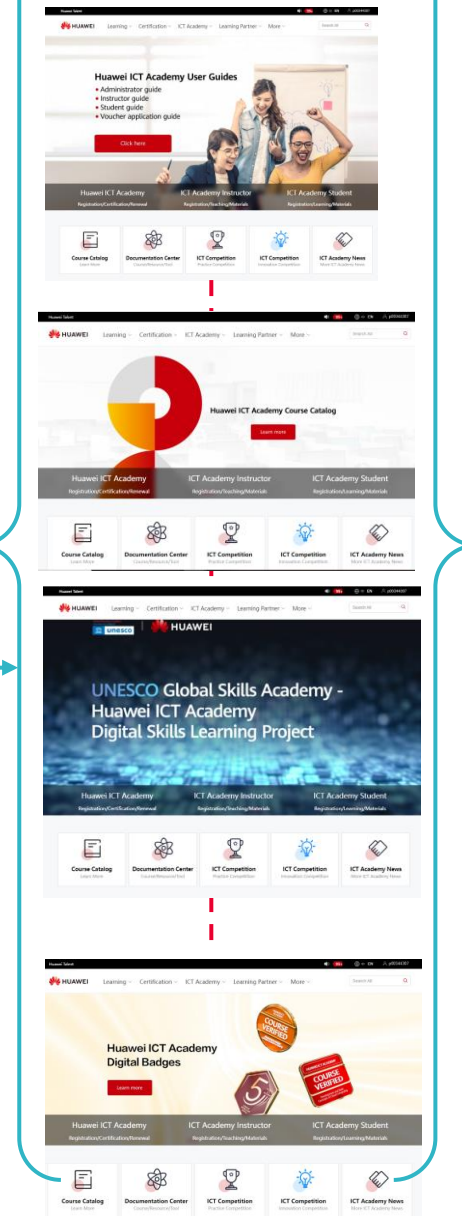
None.

https://www.unesco.org/en/global-education-coalition/skills-academy/huawei



https://e.huawei.com/en/talent/ict-academy/#/ict-contest?compId=85131975

Member of Global Education Coalition launched by UNESCO

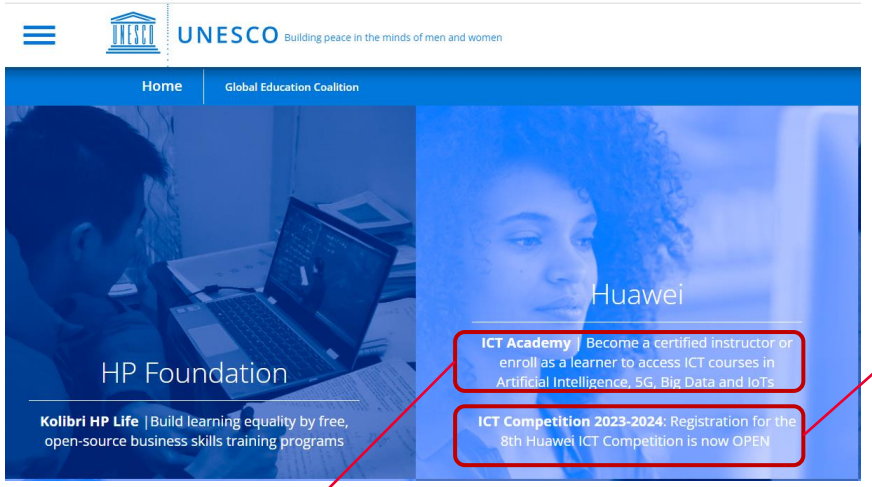


How to access the Huawei Digital Learning Courses

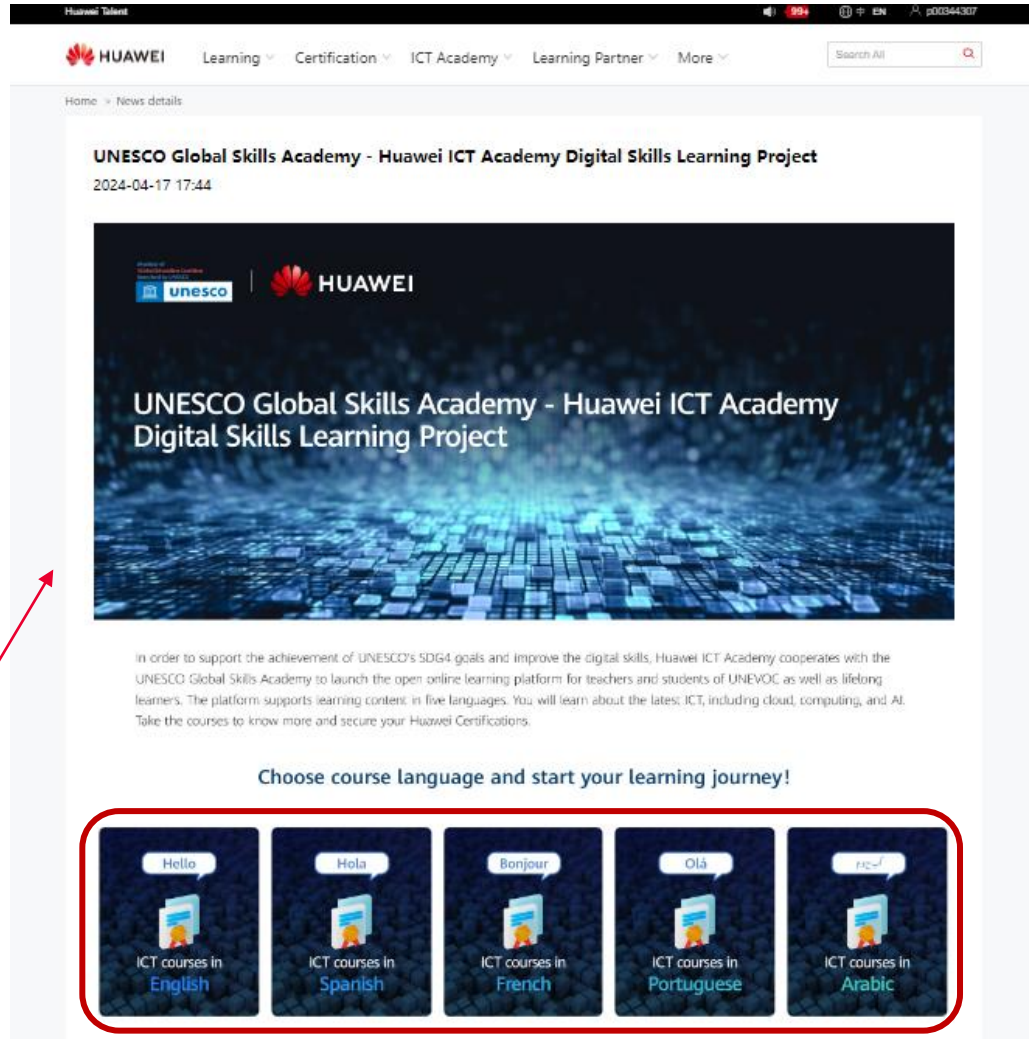
Member of Global Education Coalition launched by UNESCO

UNESCO GSA-Huawei ICT Academy

https://globaleducationcoalition.unesco.org/global-skills-academy



https://e.huawei.com/en/talent/ict-academy/#/ict-contest?compId=85131975



https://e.huawei.com/en/talent/news/#/details?consultationId=4177

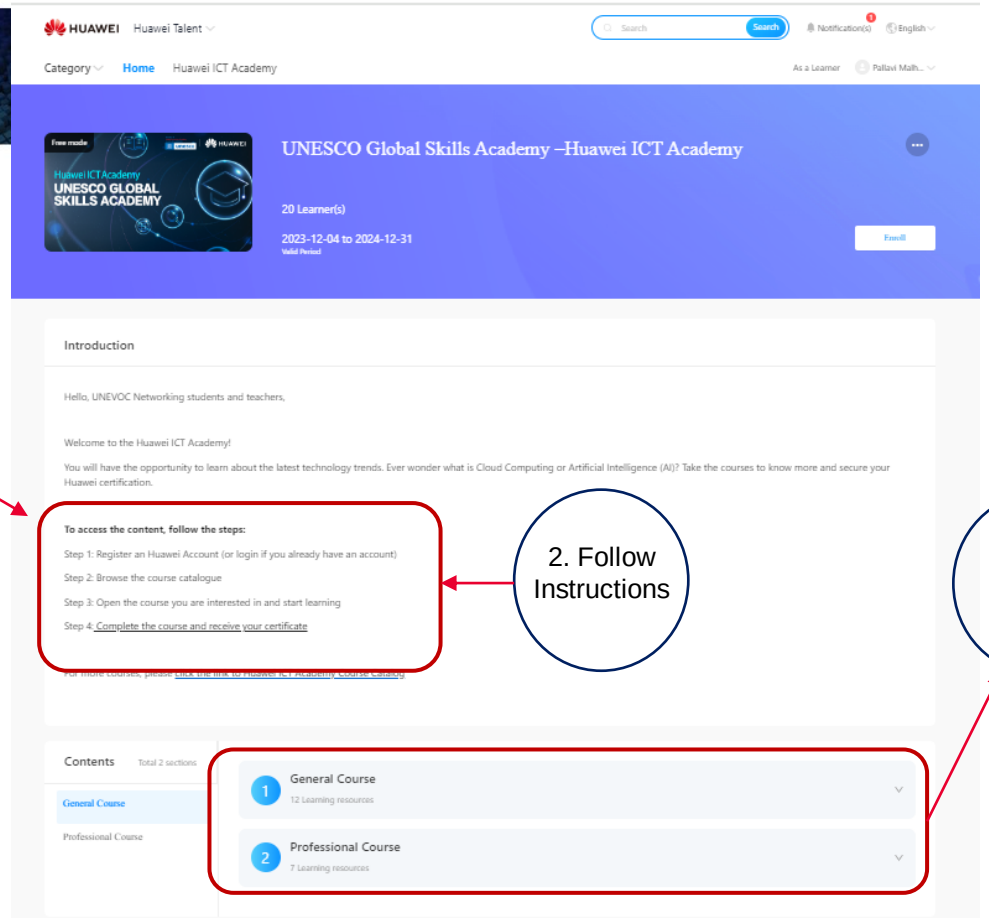
UNESCO Global Skills Academy - Huawei ICT Academy Digital Skills Learning Project

2024-04-17 17:44

In order to support the achievement of UNESCO's SDG4 goals and improve the digital skills, Huawei ICT Academy cooperates with the UNESCO Global Skills Academy to launch the open online learning platform for teachers and students of UNEVOC as well as lifelong learners. The platform supports learning content in five languages. You will learn about the latest ICT, including cloud, computing, and AI. Take the courses to know more and secure your Huawei Certifications.

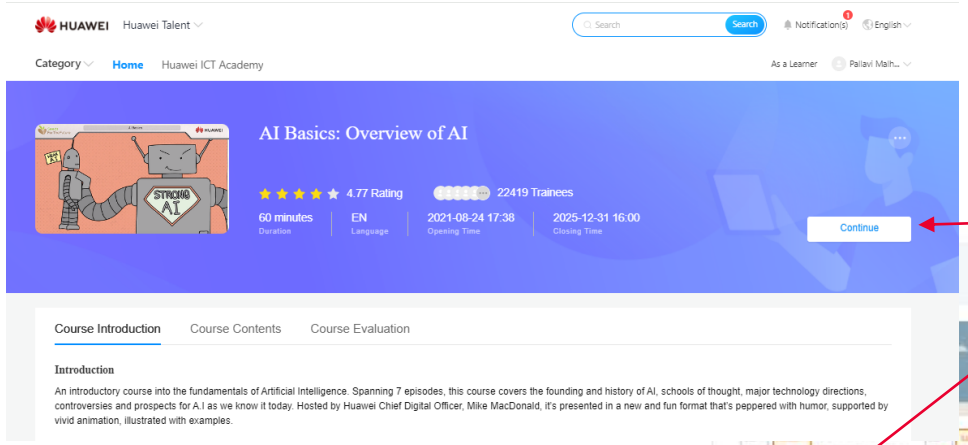
Choose course language and start your learning journey!

1.Select Language

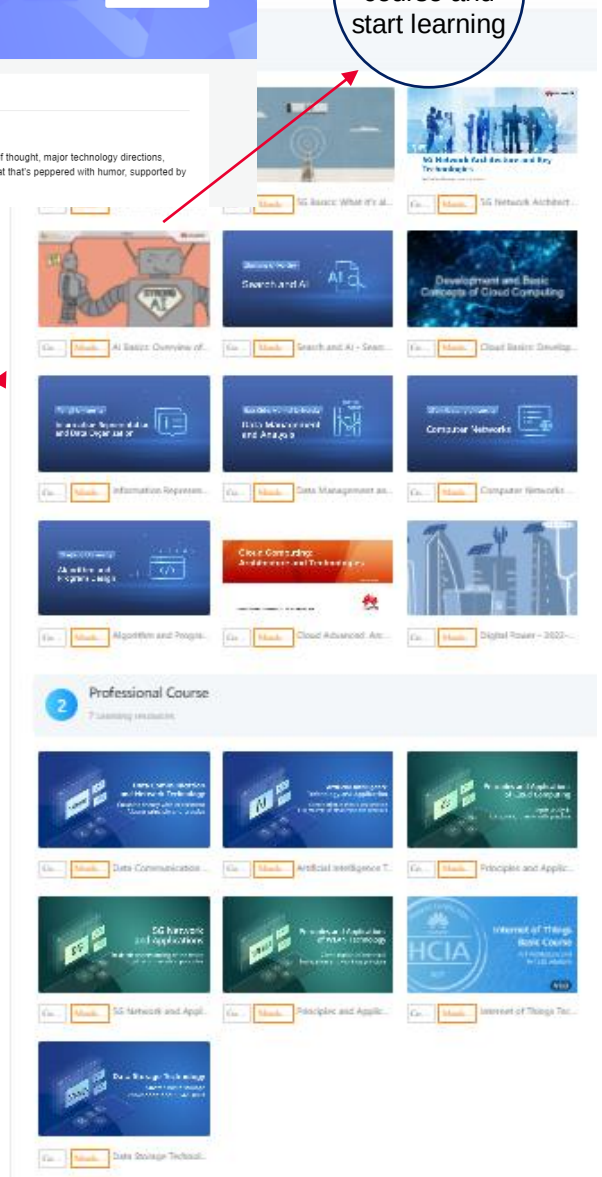


2. Follow Instructions

3. Select Course



4. Enrol onto course and start learning



Member of Global Education Coalition launched by UNESCO

unesco

HUAWEI

Recognition of Achievement

Member of
Global Education Coalition
launched by UNESCO

Huawei ICT Academy Digital Badges

A digital badge is a secure and verifiable way to display and prove your achievements.

Instructor Badge

Professional Course Badge

General Course Badge

Value of the Digital Badge:

Enhancing Personal Branding、Certification Verification、Career Development

Scan to learn more about badges

Showcase your achievement by sharing your digital badge on Social Media !

Linkedin Twitter Facebook

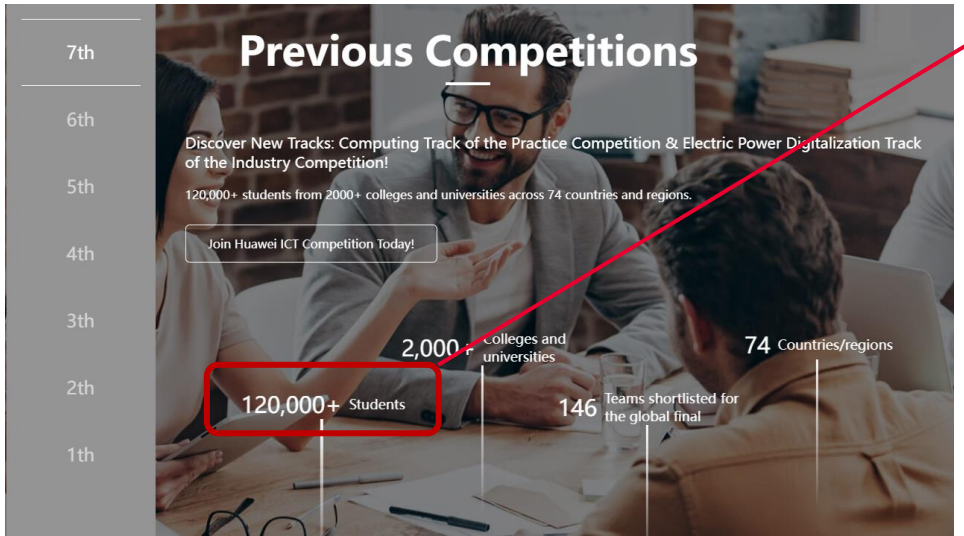
HUAWEI

2. GSA-Huawei ICT Competition 2023-2024

Huawei ICT Competition 2023-2024 Europe

Member of
Global Education Coalition
launched by UNESCO

参赛人数 Number of Participants / 区域 Regions	第8届 the 8th Competition						年增长率 YoY				
	实践赛				AI创新赛 Innovation Competition	总计 Total	实践赛			创新赛 Innovation Competition	总增长率 Total Growth Rate
	云赛道 Cloud Track	网络赛道 Network Track	计算赛道 Computing Track	昇腾AI赛道 Ascend AI Track			云赛道 Cloud Track	网络赛道 Network Track	计算赛道 Computing Track		
总计 Total	**38920**	**102414**	**22721**	**5380**	**2055**	**171490**	**61%**	**42%**	**299%**	**33%**	**39%**



750,000+ Students

2,000+ Colleges and universities

80+ Countries and regions

Total Student participation to-date

7th 2022-2023

120,000 students

2000+ universities and colleges

74 countries /regions

146 teams in the global final

Huawei ICT Competition 2023-2024 Europe

Poland Grand Prize Winning Team - Network Track

Türkiye Grand Prize Winning Team - Innovation Track

Closing & Awarding Ceremony of the 8th Huawei ICT Competition 2023-2024 Global Finals

Winning teams of Network Track

- **Grand Prize** – Poland: Poznań University of Technology
- Second Prize – Italy: Università Politecnica delle Marche
- Third Prize – Spain: University of Alicante

Winning teams of Computing Track

- Third Prize – Türkiye: Erzurum Technical University&TED University

Winning teams of Cloud Track

- Second Prize – Italy: K Labs Academy
- Second Prize – Poland: Poznań University of Technology
- Third Prize – Türkiye: Eskişehir Osmangazi University&Yalova University

Winning teams of Innovation Competition

- **Grand Prize** – Türkiye: MEF University, Team: Edusyntech
- Second Prize – Greece: University of Macedonia, Team: InnovHub

HUAWEI ICT Academy

Member of Global Education Coalition launched by UNESCO

unesco

HUAWEI 中文 EN

HUAWEI ICT COMPETITION 2023-2024 GLOBAL FINAL

Winners List of the Global Final

Türkiye Grand Prize Winning Team - Innovation Track

Grand Prize

MEF University

Türkiye - EdusynTech

Team Edusyntech – Aga, Efe, Arda

https://www.huawei.com/minisite/ict-competition-2023-2024-global/en/index.html

HUAWEI

Follow us

Huawei Talent Ecosystem Promotion Platforms

Member of Global Education Coalition launched by UNESCO

Huawei Talent

One-stop service platform

Huawei ICT Academy

WeChat **Facebook**

Latest news and success stories of Huawei ICT Academy

Huawei Certification

WeChat **Facebook**

Latest news of Huawei certification

Thank you.

Pallavi Malhotra
Pallavi.Malhotra@huawei.com

LinkedIn: https://www.linkedin.com/in/pallavi-malhotra-7a0a492/

Bring digital to every person, home and organization for a fully connected, intelligent world.

HUAWEI

DysTherapy

Unlocking Potential in Every Dyslexic Child with AI

DysTherapy Project Presentation

info@edusyntech.com

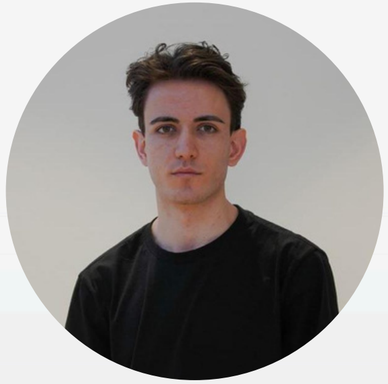
edusyntech

MEF UNIVERSITY

Team

Arda Gökalp Batmaz

Co-Founder
Mobile Developer
with 3 year experience
Computer Engineering
Student



Ağa Saltıkalp

Co-Founder
AI Developer with
2 year experience
Computer Engineering
Student

Efe Arda Ulun

Co-Founder
Product management
and Business
Development

Instructor

Özgür Gün Uyar

Special Education Teacher
Dyscalculia Association
Istanbul Representative

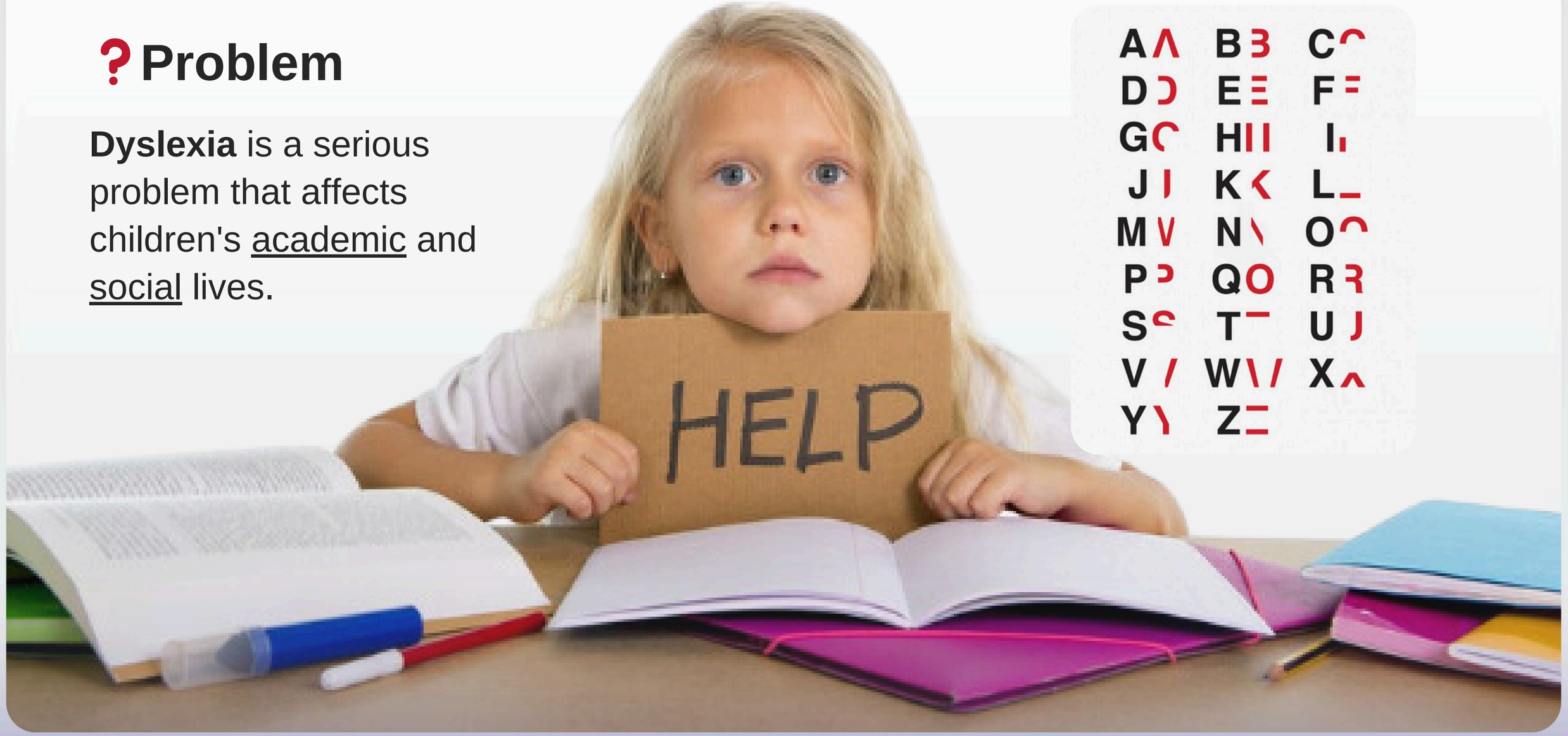
HUAWEI CLOUD

LLMs

ASSOCIATION DYSCALCULIA
Everybody can learn maths!

? Problem

Dyslexia is a serious problem that affects children's academic and social lives.



The most common learning disability is **Dyslexia**

In Europe **10%** of the population has dyslexia or some type of learning disability.

Dyslexia rate in Turkey is **8%**

In Asia, the prevalence of dyslexia among all students is about **10%**

“LDRFA – Learning Disability Resources Foundation,” LDRFA, 2017. https://www.ldrfa.org/

Target Group

Dyslexic Children Within 6-13 Age

✅ Solution

Increasing their motivation; An AI-based education model that strengthens **reading, writing** and **comprehension** reflexes.

Personalized Learning Experience

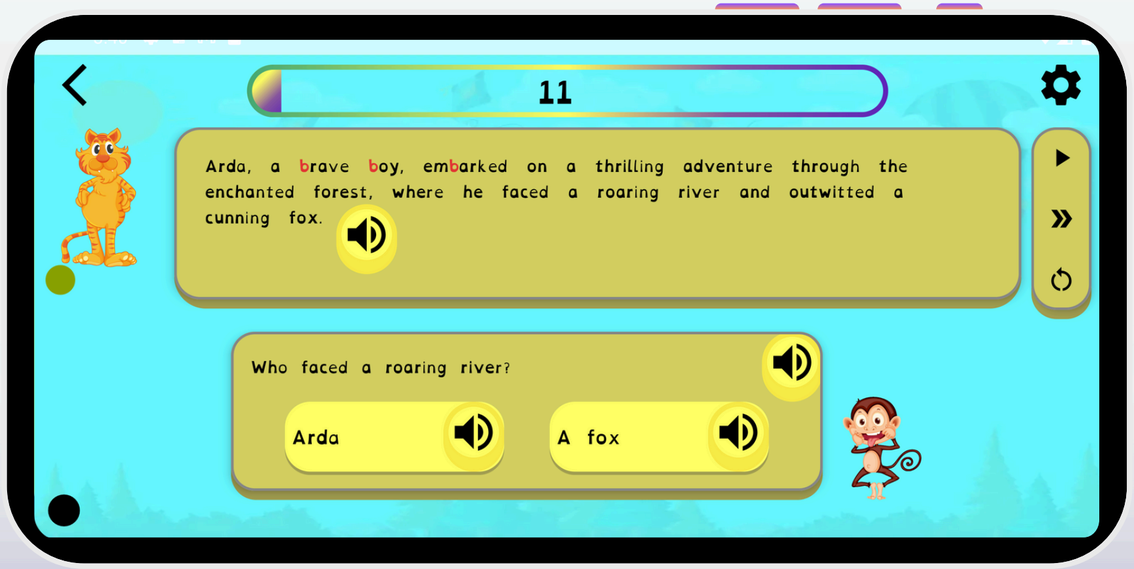
Gamified and Motivational Content

Sensitive Content Control

AI-based Level Identification and Content Generation

DysTherapy

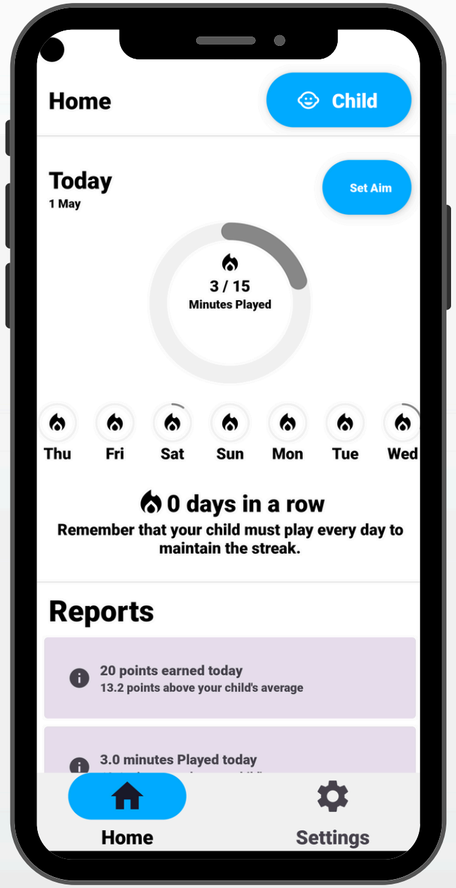
It aims to diversify educational content with artificial intelligence-supported stories and cognitive practices.



DysTherapy

Parent Panel

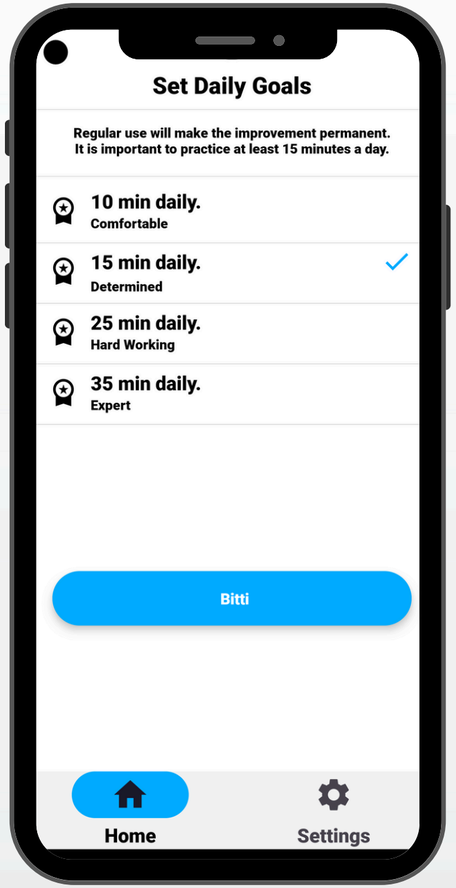
edusyntech



Daily Summary

Monthly Summary

Detailed Report



Goal Set

Content enriched with
Computer Vision

Education designed with **Generative Artificial Intelligence**

Interactive education system with **Natural Language Processing**

Providing an artificial intelligence-based personalized education model

🚀 Our innovative approach

Experts

Züleyha Batbay Sarı

- Necessity of story mode
- What does a lesson flow like
- In-class activities according to the Dyslexia level
- Testing criterias

Damla Sivrikaya

- Necessity of fonological, short-memory and pattern activities
- Their lesson flow and resources

Kübra Saltık

- Necessity of simultaneous thinking and processing in mind activities
- Their lesson flow and resources

Eda Dinç

- Their in-class activities, lesson flow and resources

Collaborator Schools That Are Interested In Project

Züme Psychotherapy and Child Development Center

Halkalı Special Education and Rehabilitation Center

Private Independent Living Private Educational Institutions and Rehabilitation Center

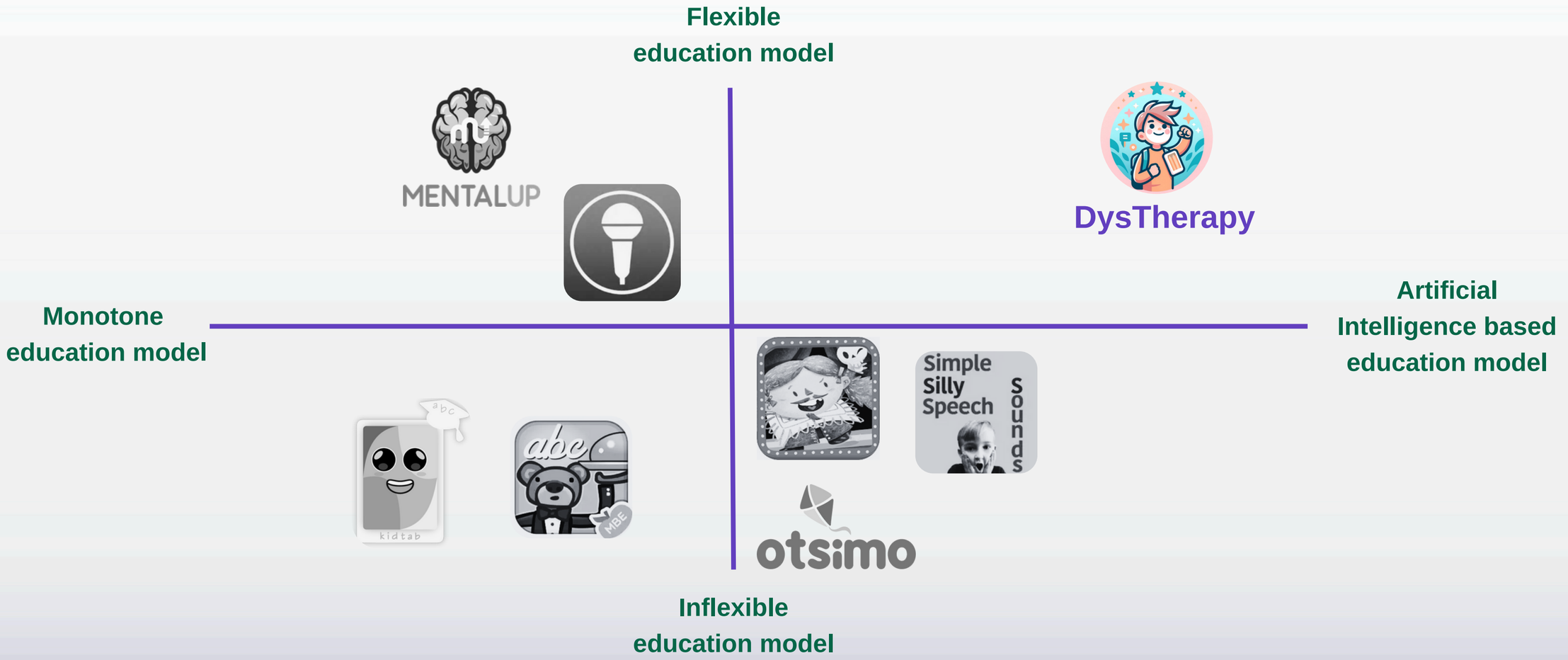
Business Model

No Ads

Subscription Based Usage System

Providing a Service to Public and Private Educational Institutions

Competition



Our motivation for this competition

HUAWEI

unesco

DysTherapy

Unlocking Potential in Every Dyslexic Child with AI

mail

website

social media

For any question edusyntech@gmail.com