



EST

1. COMPANY

OVERVIEW 3
BUSINESS AREA 4
AI TECH Competitiveness 6

2. AI TECHNOLOGY

EST AI HUMAN (AI CLONE, AI PERSONA) 9
AI STUDIO PERSO 25
AI PERSO LIVE 33

3. AI BUSINESS USECASE

AI BUSINESS 49
PARTNERSHIP 62

4. WHY ESTSOFT

EST'S UNIQUE FEATURES 64

5. MEDIA

MEDIA / NEWS 76





COMPANY

OVERVIEW
KEY BUSINESS
AI TECHNOLOGY



OVERVIEW

31 Years

Career

631 Staffs

No. of Employees

156 Times

Awards / Licenses / Nominations

30million+Users

SW Users

Annually removed over 200million Malware

Global Level Cyber Security Technology



Professionals dedicated to Al research and dataset setting up, etc. Korean No.1 Security Competencies

The best security competencies encompassing data protection, endpoint security, deep learning security based on Al technology

30 years of SW Development Management Know-How

Successfully provided SW service for 30 million users such as ALTools, TeamUp, ROUNZ, etc.

Company	ESTsoft Corp.
CEO	Sangwon Jeong
Foundation Date	October 2, 1993
Listing Date	July 1, 2008 (Listed on KOSDAQ)
HQ Location	Banpo-daero 3, Seocho-gu, Seoul, Korea
Hompage	<u>estsoft,ai</u>



BUSINESS AREA – 3bilion users secured in Korea

Al



AI HUMAN

Al Clone: Replication of a real person's appearan
ce, voice, and own identity
Al Persona: Creation of a completely new person
a that fits the purpose and concept
Al STUDIO PERSO: Video production studio wher
e Al speaks only with text/audio input



ROUNZ

Real-time virtual fitting eyewear commerce implemented with EST's own augmented reality (AR) technology

S/W

ALTools

14 million users Korea's leading utility software



ALYAC

16 million users Korea's No.1 security sof tware



Others



CABAL

1st gen PC MMORPG in Korea expanding global market



ZUM

Korea's No.3 comprehensive portal service focused on financial information & platform



EXPONEN.

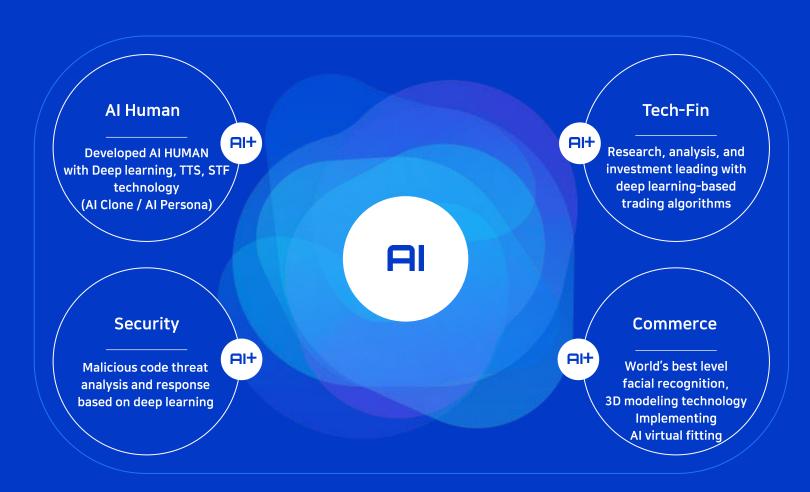
Uses deep learning-based in vestment algorithms, mana ging 150 billion KRW funds



BUSINESS AREA

AI PLUS +

ESTsoft offers Al solutions in the areas of HUMAN, SECURITY, COMMERCE, and TECH-FIN, all of which are powered by their unique Al research and development competencies through Al technology PLUS+.



ALTOOLS 30,000,000 Users



AI TECH Competitiveness

- Minister of Science and ICT Award in the 4th '2022 Artificial Intelligence Grand Challenge' competition (3 consecutive years)





AI TECH Competitiveness

Awards 80

WEB 3D 2022 The best paper award

2022 Al Grand Challenge Ministerial awards (1st Prize Most awarded record)

2021 Al Grand Challenge Ministerial awards (1st Prize Most awarded record)

2021 '20th K-ICT Information Protection Grand Prize' Minister of Science and ICT Award

2021 2021 Al Online Competition Information and Communication Industry Promotion Agency Award

2020 Al Grand Challenge Ministerial awards & Top 5 in all tracks (4 total)

TeamUp, 2020 Brand of the Year Grand Prize IT Services (Collaboration Tools)

ALYac, 2020 Brand of the Year Selected by Consumers IT Services (Security)

ROUNZ, 2021 Web Award Korea Grand prize in the field of service of shopping

Sangwon Chung, CEO of ESTsoft, 2019 Venture Startup Award Promotion Merit Awards

Industrial Packaging Awards (Ministry of SMEs and Startups)

Deep Eye, 24th Korea Distribution Awards (Minister of Trade) Industry and Energy Award

EST security, 2019 Information Protection Industry Night Commendation (Minister of Science and ICT)

ALTools Integrated Pack v13.0, The 6th Korea SW Product Quality Awards

Grand prize (Ministry of Science and ICT)

ESTsecurity, 2019 Security Awards Korea' Grand prize in EDR solutions

PATENTS 52

'Apparatus for providing an integrated diagnostic information for control response, a method therefor, and a computer recordable medium storing program to perform the method' (10-2259884, 2021. 5. 27)

'Apparatus for high-speed decompression based on flexible use of memory, method therefor, and computer recordable medium storing program to perform the method' (10-2216841, 2021. 2. 10)

'System for analysing malicious code using independent device' (10-2204222, 2021. 1. 12)

'Aapparatus for selecting a representative token from the detection names of multiple vaccines, a method therefor, and a computer recordable medium storing program to perform the method' (10-2199704, 2020. 12.31)

'Apparatus for detecting context anomalies in documents, a method thereof and computer recordable medium storing program to perform the method' (10-2179025, 2020. 11. 10)

'Apparatus for detecting and preventing ransom-ware behavior using camouflage process, a method thereof and computer recordable medium storing program to perform the method' (10-2149711, 2020.8.25)

'Apparatus for processing compressed files suspected of infection, method thereof and computer recordable medium storing program to perform the method' (10-2099291, 2020. 4.3)





AI TECHNOLOGY

EST AI HUMAN

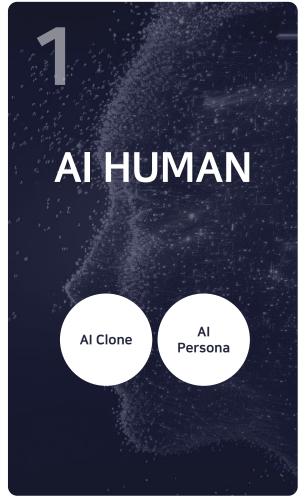
- AI CLONE
- AI PERSONA

AI STUDIO PERSO



ESTSOFT AI Solution

ESTsoft provides AI Human creation services that meet client needs based on its AI technology, AI Human video production solutions that enable the creation of content spoken by AI Humans, and AI PERSO Live solutions that enable interactive conversations with AI Humans.







EST

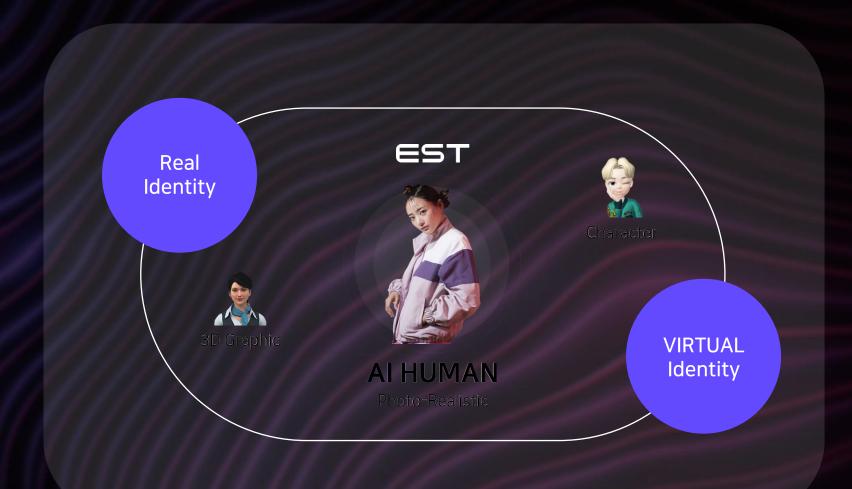
AI HUMAN

AI HUMAN technology that connects the real world and the metaverse with expansion of business

Implementation of our very own photo-realistic technology based on real-time rather than 3D Modeling VFX technology

With world-class AI technology
Implementing a 4K virtual human

We can change the world with you

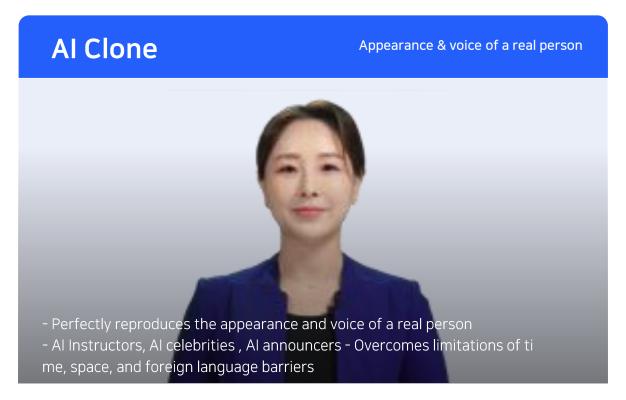


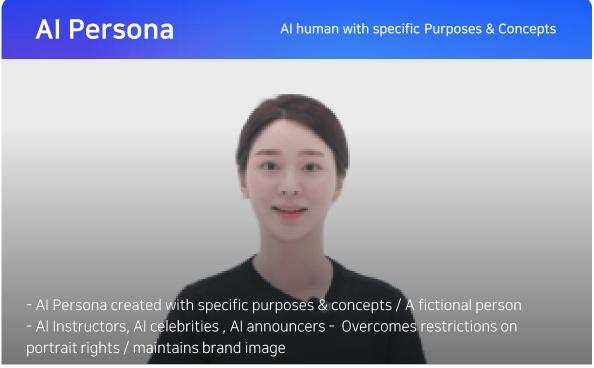


ESTsoft's Al creates a Live-action type Al Human.

ESTsoft possesses Al Human technology that perfectly and diversely creates characters of virtual identities as well as appearances with artificial intelligence.

- 1. Perfectly replicate real-life figures
- 2. Create figures for which your company can permanently own the portrait rights







ESTsoft's Exclusive AI Human IP

CLASS:y

Idol (Girl group)

Exclusive AI Human IP

- CLASS:y was formed at MBC's <After-school Excitement>
- 1st place for 11 consecutive weeks
- May 22nd, official debut



Eunbo Park

Announcer

Exclusive AI Human IP

- MBC Wonju < news desk> & < evening news>
- Live news and MC experiences



Nasil Hong

Weather caster

Exclusive AI Human IP

- 2016 Miss Korea
- A professional weathercaster
- Several other broadcasting activities



Devin Whiting

Announcer

Exclusive AI Human IP

- Arirang TV News Anchor
- EBS Morning Special, Yonhap News, etc.
- Multiple other translation and editor experiences





ESTsoft's Exclusive AI Human IP

Jinah Tae

Singer

Exclusive AI Human IP



Hyeonhee Hwang

Comedian · Writer · Inverstor

Exclusive Al Human IP

- Korea Broadcasting System Comedian
- Investment expert
- Author of 'Cowardly Money"



Nayoon Kim

Reporter · MC

Exclusive Al Human IP

Korea Broadcasting System Reporter



Youngho Kim

Sports Announcer · MC

Exclusive AI Human IP

- KIA baseball team Announcer
- Handball Korea League Announcer
- Seoul KIXX volleyball Announcer





ESTsoft's Exclusive AI Human IP

Olivia

Model

- SHINee's Key, Young Tak, Zior Park, etc. appear in MV
- Various Beauty Brand Model



E-so Kim Al New recruit of ESTsoft EST Representative Al Persona • ESTsoft New Recruit Concept • IPPartnerships with numerous companies

Sean

Al Announcer

EST Representative AI Persona

- A white male announcer in his 30s
- Specialized in English speech
- A trustworthy and likable image



Eilee

Al Announcer

EST Representative AI Persona

- A female announcer · MC in her 20s
- Clear pronunciation, calm and stab voice
- Urban image



Al Announcer - Commentator

EST Representative AI Persona

- A white male announcer in his 30s
- Specialized in English speech



Tyla

Al New recruit of ESTsoft

EST Representative AI Persona

- Concept of a new employee at EST
- IP Partnerships with various companies



Sunho Kim

AI MC

EST Representative AI Persona

- A male in his 30s
- A powerful voice tone suitable for hosting and presenting



New (upcoming)

EST Representative AI Persona





CLONE

AI PERSONA

EST AI HUMAN AI STUDIO PERSO USE CASES

YTN

Al Anchor Sangwook Byun

Synthesized YTN Bae Sang-Wook anchor as Al during <Evening with News>





CNA

Al Anchor DAWN TAN

The DAWN anchor, which was created as an Al model, was featured in a documentary broadcasted by CNA (Singapore)





Hunet

Al Lecturer Minyoung Lee

Representative lecturer of Hunet, A well-known education content provider based in Korea





ESTsoft

Al Announcer Eunbo Park

ESTsoft's exclusive AI announcer





YBM

Al Lecturer Hyewon Park

A leading English lecturer at a large educational institute





CLASS101

Al Celeb Lecturer Hana Baek

Al Persona representing Class101 Influencer activities, online classes





Korea Invest & securities

Al Analyst Jia Han

Al Persona representing Korea Investment & Securities, actively broadcasting on its YouTube channel





ESTsoft

Al Staff E-So Kim

EST's representative AI Persona A new staff concept



Shinhan Cube On

Al Pilates Instructor

EST's E-So Kim's face synthesized to model AI Pilates instructor





Others

AI Staffs

Government departments and organization representative Al Persona (Currently under work)





Al Clone

Al Anchor Sangwook Byun

NEWS/MEDIA



Al Anchor Dawn TAN

NEWS/MEDIA



Singapore state-run broadcast Anchor

Recreating Singapore's national broadcaster 'CNA's DAWN anchor using Al.

CNA produced a documentary program and broadcasted it to 60 countries

- ▷ AI DAWN anchor broadcasted



and cost savings

▷ Allow 24-hour emergency standby



Al Clone

Al Lecturer Minyoung Lee

EDUCATION



The Al Clone of the leading education institute

Utilized for producing online lecture content (Leadership, job training, etc.)

Leading the adoption of Al humans among online ed companies

Significant increase in sales and operating profit d

the COVID-19



Al English Lecturer Hyewon Park

EDUCATION



The Al Clone of the language institute's representative English lecturer

Korea's first bilingual (KOR / ENG) Al instructor

 \triangleright Leads in Production and commercialization of

TOEIC Speaking online lecture content

> Providing personalized Q&A videos for each student





Al Clone

Al History Lecturer Taesung Choi

EDUCATION

Famous History Lecturer

Al Clone D



Generate popular online history lectures

Planning to apply on various content

- ▷ Al History docent at museums ·exhibitions



Al Finance Lecturer Hyeonhee Hwang EDUCATION

Korea Broadcasting System's

Comedian & Financial Investor

Al Clone



Planning to apply on various content

▷ AI MC, Interviewer , Youtuber , Lecturer and more

▷ Professional industries – Conference speakers , Bank

language interpreter





Al Clone

Al Singer · Entertainer

BROADCASTING / SENIOR CARE

Korea's Legend Singer Jinah Tae Al Clone



Singing & dancing Al singer

Production of senior care & entertainment content

- > Senior companion content
- > Promotional ambassador and advertising model
- > Scheduled to work as a singing class instructor at senior centers in Gimhae in December



Al Reporter

BROADCASTING / SENIOR CARE

Reporter / MC Nayoon Kim Al Clone



For senior care & various content production

- > Specialist instructor for senior singing classes and cognitive activities
- > Senior companion content
- > Travel content reporter
- > Introduction and promotional model for local specialties
- > Scheduled to work as a play class instructor at senior centers





Al Persona

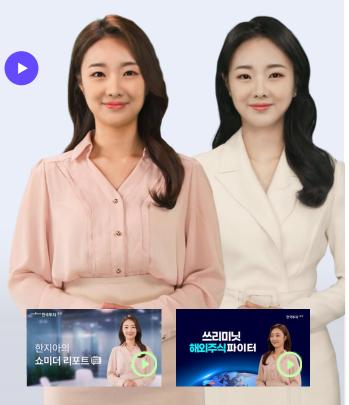
Al Analyst Jia Han

FIANACE

Korea Investment & Securities Co., Ltd.

Al Junior Analyst generated with a newly recruited staff

- ▷ Produce content for basic investment guidelines and various topics for internal use.



Al Banker Arum Han

FIANACE



Daegu Bank's own virtual Al banker

Planning to apply in variety of areas

- Voice phishing prevention training for global customers and internal educational content at Daegu Bank
- □ Customer service Al Banker, Kiosk desk & ATM,
 □ Embed Al human to the queue number machines
- ▷ Al Human with innovative movements such as greeting, pointing and more





Al Persona

Al Celebrity Lecturer Hana Baek

EDUCATION





The Al Persona representing a modern trend lecturer

> Various Influencer activities

> Produced video lectures as a influencer lecturer

Becoming an NFT Writer

Personal Branding

ESTsoft is planning to develop her into a brand, (EST is her management agency.)



Al English Teachers Michelle James EDUCATION



James - KOR/ENG Bilingual Teacher Michelle - KOR/ENG Bilingual Teacher

Elementary school English classes Teacher specializing in basic English pronunciation classes and etc.

Produce supplementary content for YBM English classes





Al Persona

Al Lecturer Woori Bae

EDUCATION





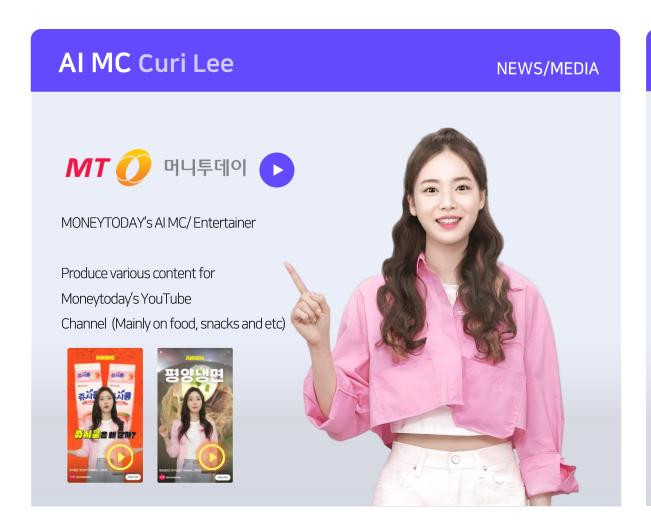
Representative education instructor with a name that symbolizes 'Learning'.

Generates various educational content including education for corporates





Al Persona

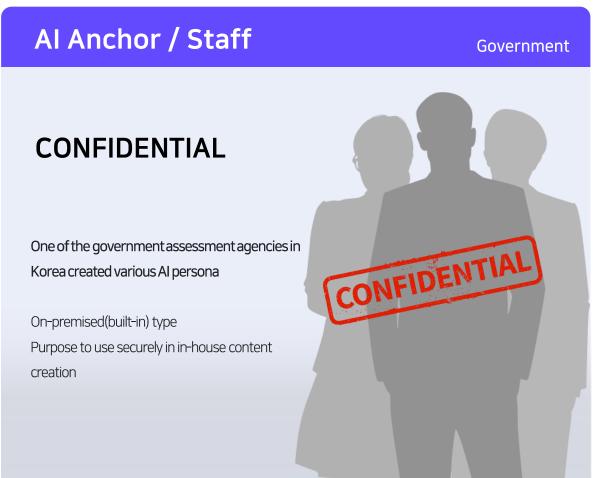






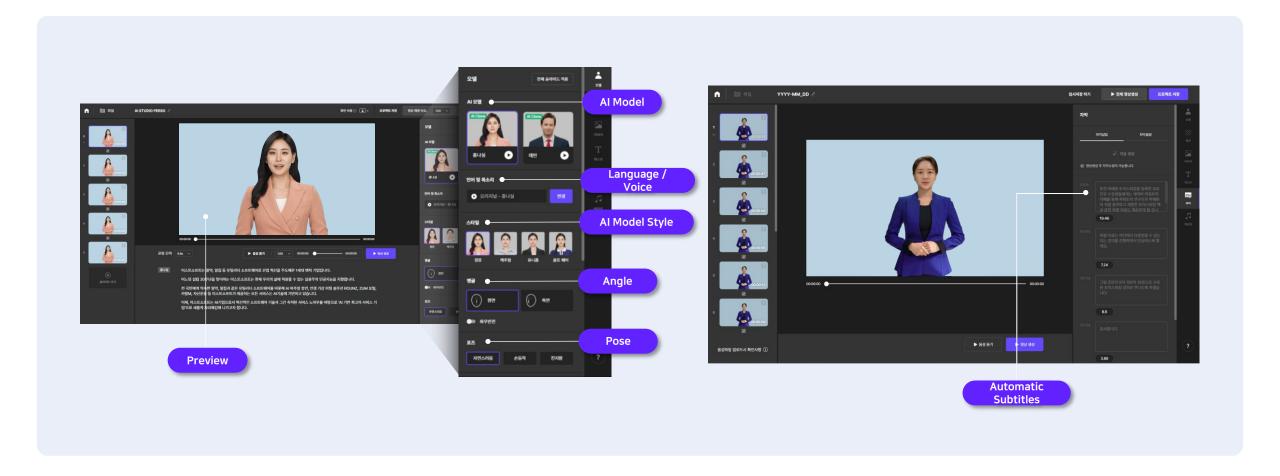
Al Persona







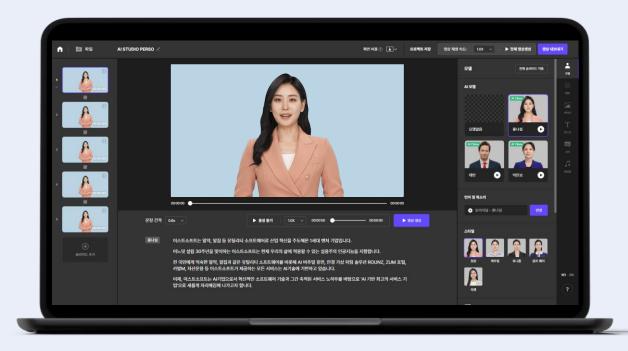








Estsoft's AI STUDIO PERSO is an "Al Video Production Solution" that allows you to create video content featuring a realistic AI Human simply by entering text or uploading audio files.



Deep Learning-Based Al Human Video Production Solution

- $\cdot\,$ Easy video production with a simple interface that requires no additional training
- Provides a stable and comfortable platform environment without the need for additional program installation

Create a 1-minute video in just 40 seconds

- \cdot Video production speed is 0.4 times the original video length, significantly faster than competitors
- · Features include voice preview and video preview for quick verification of result

Create the world's most natural custom exclusive Al Human

· Customized exclusive Al Human tailored to the brand identity and usage purpose of each client, or pre-produced Al Human

Create videos with AI Human speaking using only an audio file

 \cdot Videos can be produced by uploading an audio file without a separate script, applying the original speaker's voice and speaking style to the Al Human



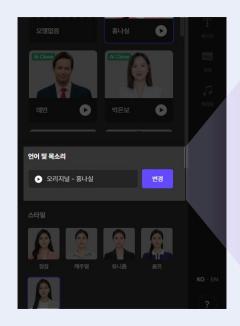


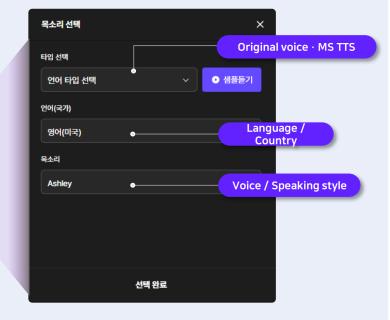
Multilingual content production with

MS TTS 🗅

Creates video that can speak 75 different languages used in over 110 countries with the voices of over 450 people with an Al Human speaking 1 language only





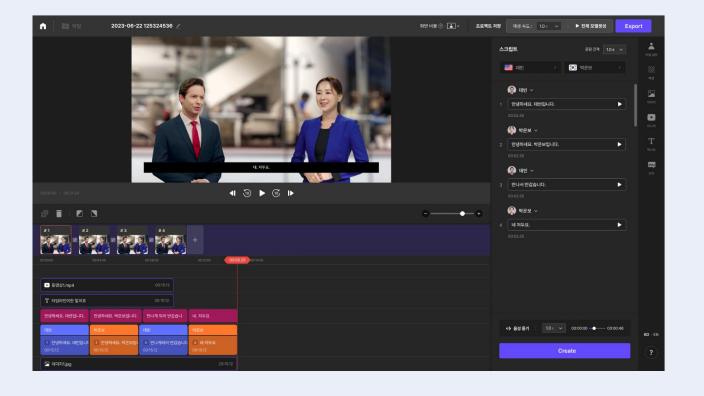






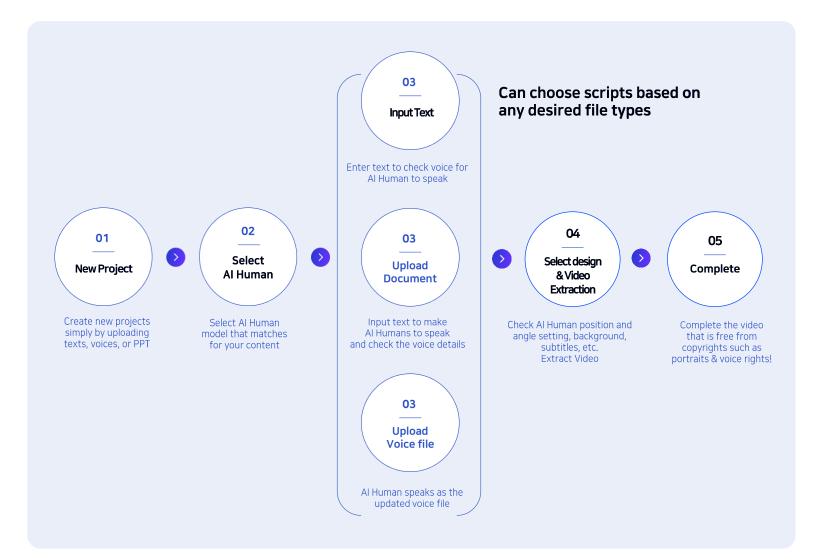
Enhanced solution UI using Timeline method

Embedded with two communicating Al Humans in one screen











30





Upload Word · HWP · TXT

Text in document files is automatically converted into scripts spoken by AI humans for convenient video production



Text to Speech

When text is entered, the AI model Immediately generates a voice that speaks



Select AI Model

Select the AI model you want for each slide and create an image



Speed / Sentence gap Adjustment

Allows AI models to adjust the speed and sentence gap of text entered



Select Angle

You can select the angles of AI models such as Front, left and right sides for each slide



==

Upload MS Power Point

the size, location, etc.

Insert Subtitles

Select Pose

Select Aspect Ratio Offers basic 16:9 widescreen

When uploading a ppt file, each slide is automatically Inserted into the background image of each paragraph, And the text in the slide note is automatically inserted Into the script for convenient video production

Choose or upload the background image you want,

Automatically insert the entered script as a caption,

Choose pose templates such as natural posture,

Insert Image / Change Background

You can put the image you want and change

or change the background color freely

Can change to any subtitle style

floating posture, and hand gestures



Upload Voice File

When uploading a voice file, AI humans communicate as a voice in the file, and video can be generated conveniently without writing a separate script or entering text



Insert Intro · BGM

Insert background sound/intro music by inserting basic background sound and uploading sound source, and adjust the volume



Insert Screen Transition Effect

Select and insert the desired transition effect for a natural screen transition in the image



FHD · 4K Chromakey Download

MP4 video files with FHD and 4K quality Downloadable as Chroma Key background



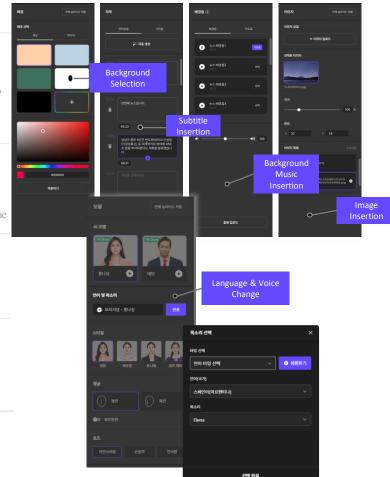
Multilingual

AI Model can speak more than 60 languages







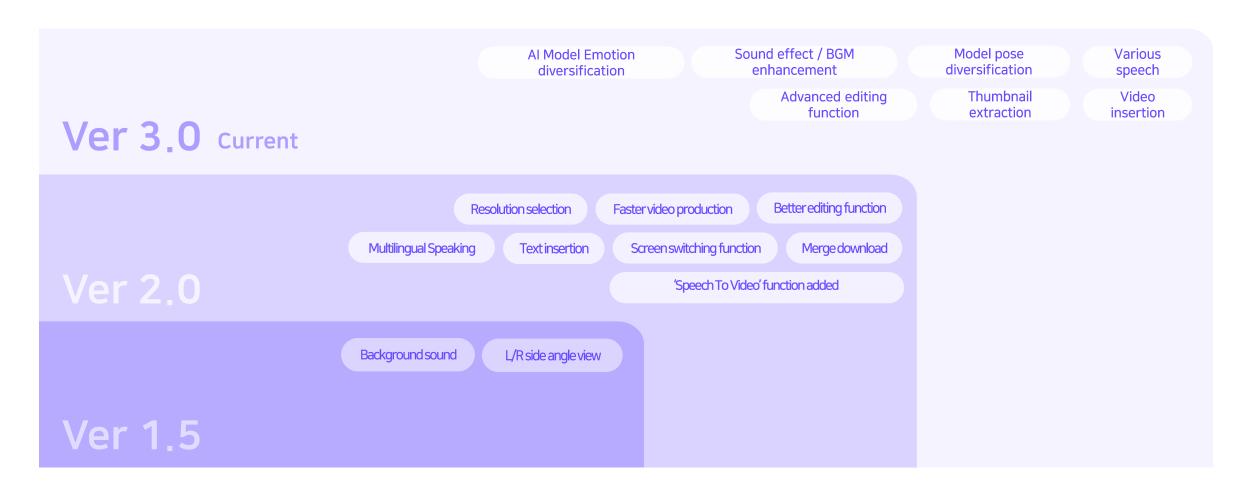


EST AI Business

Can choose a mobile-optimized 9:16 screen ratio











AI STUDIO PERSO helps to reduce the time and cost associated with repetitive tasks.



Cost Efficiency

Consistent quality of content without studios, professional equipment and crew



Convenience

Easy-to-use User Interface for operation by simply text input



Promptness

Near real-time video production advantageous in content creation that needs promptness, such as disasters broadcasting or breaking news



Mass Production

Production of a large amount of content with consistent quality based on convenience and promptness



Effectiveness

Better conveyance of information using Al human than plain text or video

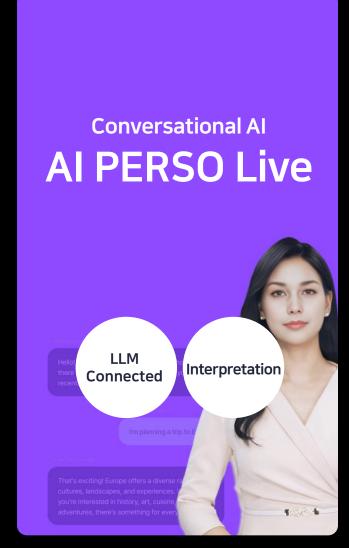


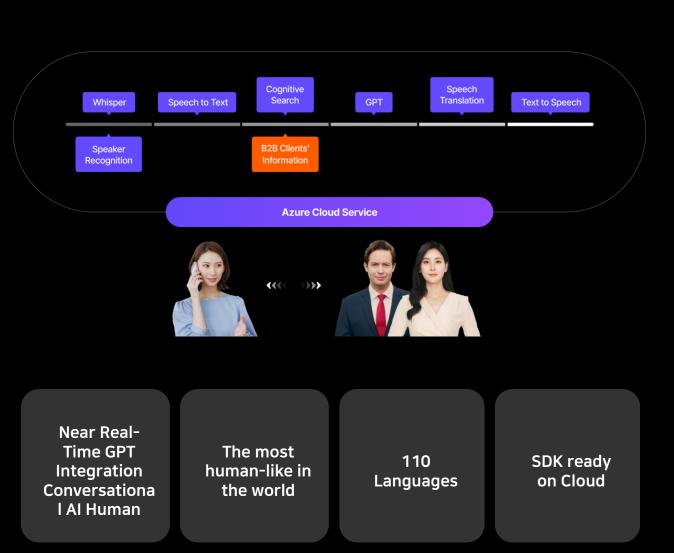
Scalability

Easy creation of multi-language content and quick global distribution



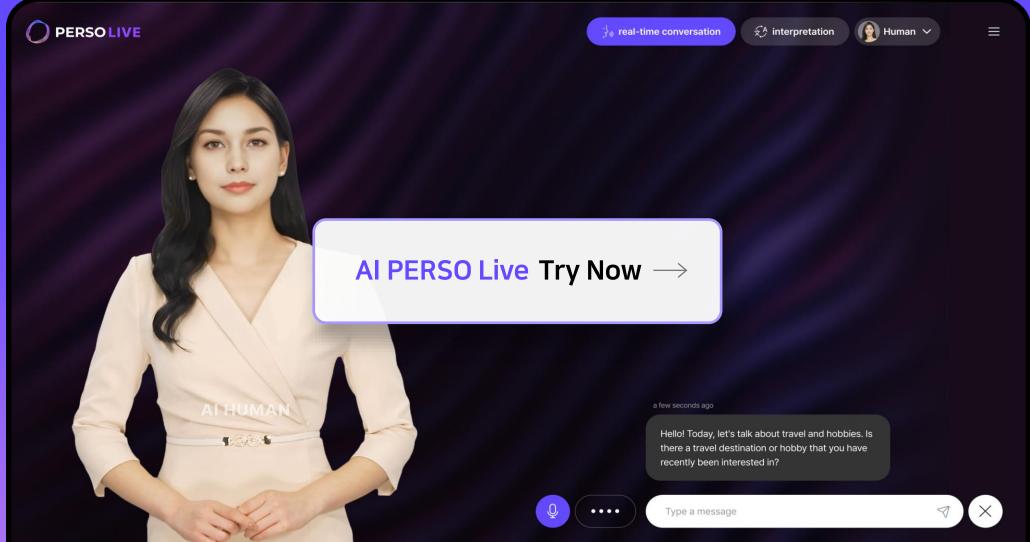
AI PERSO LIVE







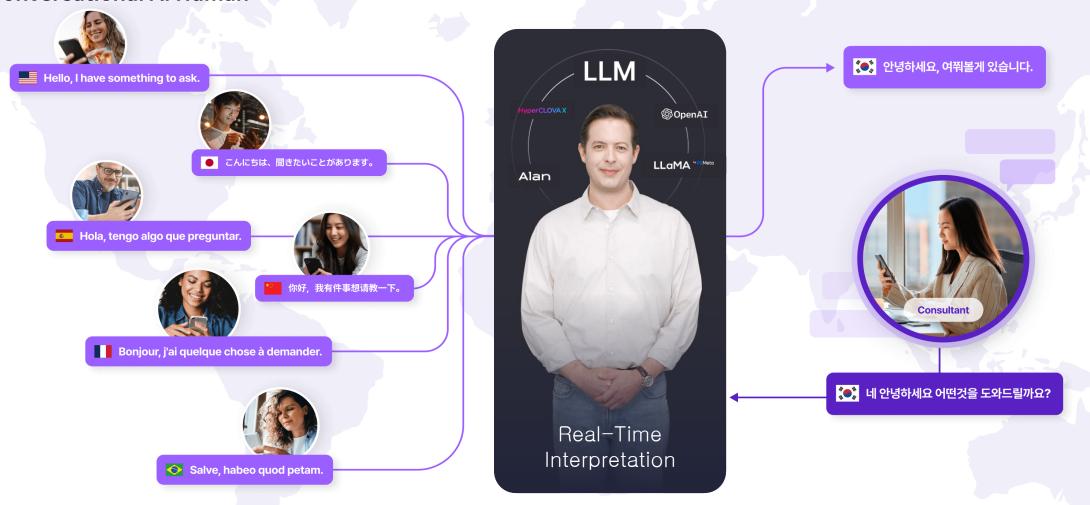
PERSO LIVE

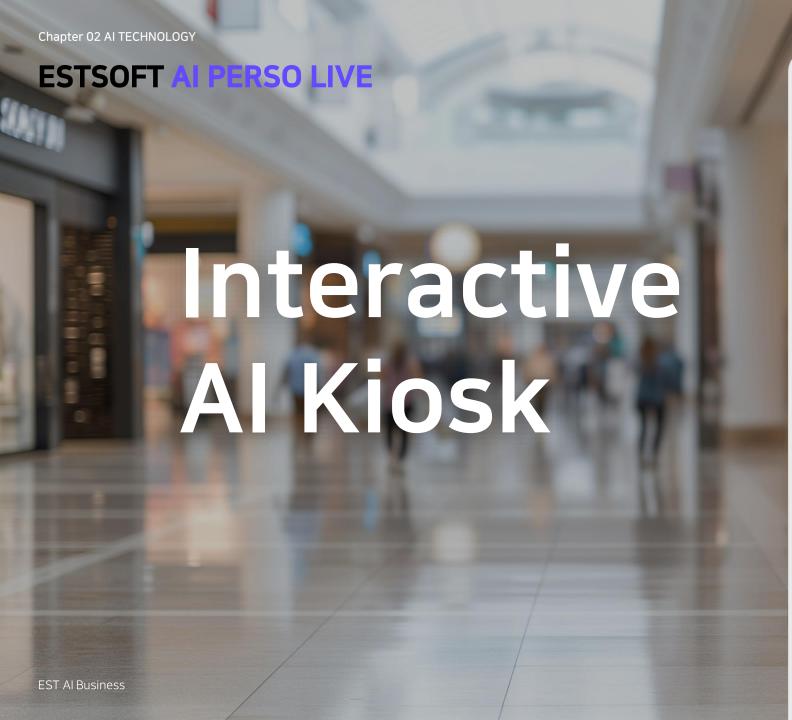




AI PERSO LIVE

Conversational AI Human







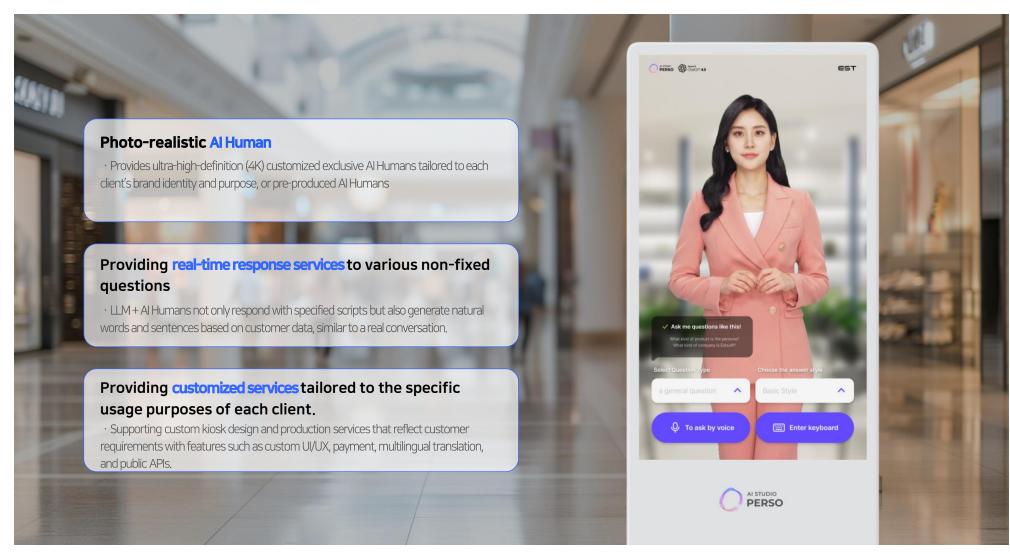




ESTSOFT AI Human Kiosk

Interactive Al Human Kiosk

Provide customer support based on 'accurate answers' through a real-time conversational AI human.





ESTSOFT AI Human Kiosk

We aim for a world where both people with and without disabilities can coexist by introducing barrier-free kiosks for the socially disadvantaged.

The Barrier-free Kiosk breaks down barriers for the disadvantaged

Removing physical barriers, psychological barriers, and institutional barriers that impede socially disadvantaged groups, including people with disabilities, the elderly, and pregnant women.



Non-disabled adult



Pregnant woman



Physical disability



Non-disabled child



Hearing impairment (Deaf person)



Non-disabled elderly person



Visual impairment (Blind person)

** Based on the National Standard for Public Kiosk Accessibility (KS X 9211), the Act on the Promotion of Convenience for Persons with Disabilities, and the Standard Specifications for Automated Civil Service Information Processing Machines (KIOSK).





ESTSOFT AI Human Kiosk

Kiosks with various functions can be manufactured according to customer requirements

main function (Customize)

Al Human

Provides natural, real-time Al Human speech, high-quality video(4K), various Gesture functions

Sign language

Provides sign language guidance using 3D characters Expressing words and sentences in sign language

Multilingual service

Multilingual service support for foreigners residing in Korea Supports languages from over 110 countries, including English

Face recognition

Provides user recognition function through camera

Braille Display

Real-time Braille output for the visually impaired

Motion recognition

User motion recognition through Kinect sensing Provides guidance switching function according to specific actions

Electronic map/directions

Provides electronic maps created with digital twins Directions to a specific location from your current location

Remote support

Kiosk operation is remotely supported by a person in charge.

Voice guidance mode

Voice guidance function for the visually impaired Simultaneous provision of a dedicated screen for people with low vision

Voice/Touch recognition

Provides voice-based kiosk function using STT Kiosk screen touch guidance function provided

Call function

Service support through voice/video connection with representative Provides a call button to call the relevant person in charge

QR code scanner

Provides QR code recognition function
Utilize functions such as ticketing
confirmation, route finding, and user
recognition

Height adjustment

Automatically adjusts kiosk height by recognizing user height Provides button-type manual height adjustment function

User recognition

When the user approaches the kiosk,
Automatic screen switching function from
standby screen to home screen

Braille keypad

Braille keypad provided for the visually impaired

Printing function

Provides various printing functions such as receipts, certificates, tickets, etc.

Credit card payment

Screen enlargement

with low vision and the elderly

Provides high-contrast screen for people

Provides various payment functions such as NFC/IC/MST

Mobile web

Mobile support for functions such as electronic maps and directions

UV disinfection

Disinfect the display using a UV lamp when not in use



Al PERSO Live SDK

Customized services for various business situations through multiple LLM models and prompt engineering





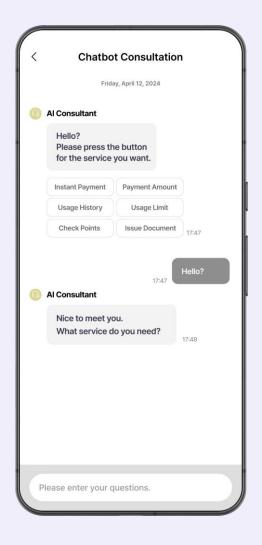


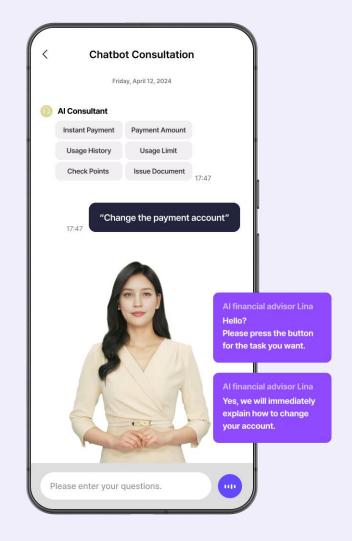
Real-time conversation () Human Interface (2) Innovative <> Customer communication @ service 24 hours (24) In all languages of the world

AI PERSO Live



AI PERSO Live - Finance



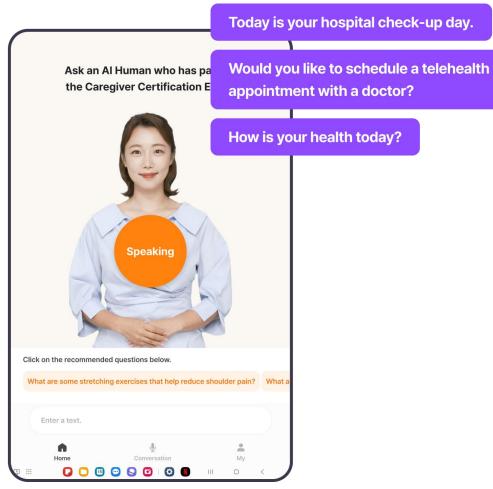






AI PERSO Live - Healthcare





Building patient-centered emotional experiences

Providing immersive and realistic conversations as a companion for patients

Enhancing engagement for both medical staff and patients

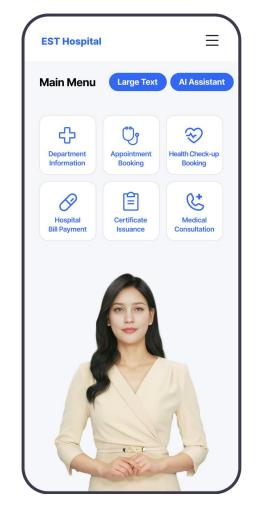
Recreating the appearance, voice, and identity of real individuals such as celebrities, grandchildren, and more.

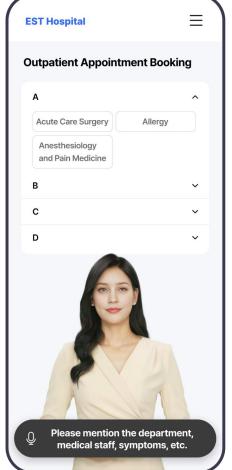


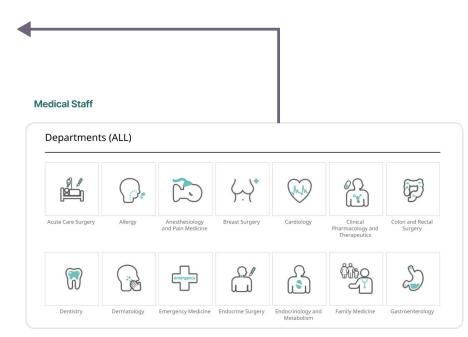
AI PERSO Live - Healthcare

Consultation and appointment booking before visiting the hospital

Basic health check-up and consultation before visiting the hospital

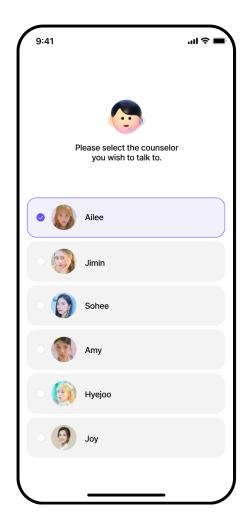


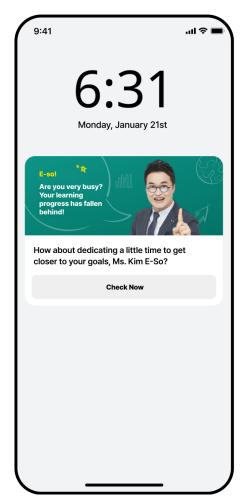






AI PERSO Live - Education





"The student selects the desired instructor"

Anyone can easily learn a language with native speakers of various genders/nationalities and study with star instructors.

"Customers do not want to talk to robots".

Provides an immersive learning experience.

"Customers value interaction"

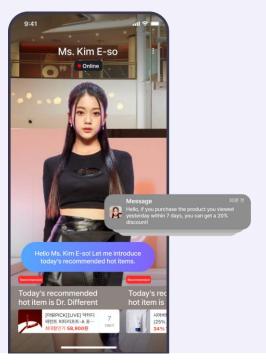
Personalized in-app messages from pre-configured Al Humans.



AI PERSO Live - Retail

Celebrity AI humans such as celebrities, actors, and athletes provide customer service

Celebrity-recommended hot items increase purchase conversion rates.



Enhance user engagement through personalized responses from AI Humans.

Recommend products that match customer preferences through AI Merchandisers.

Deliver messages that convey the authenticity of face-to-face interactions.





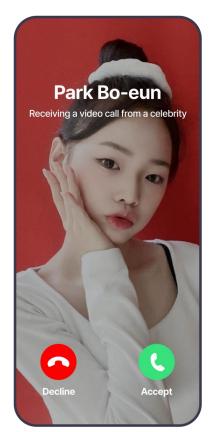


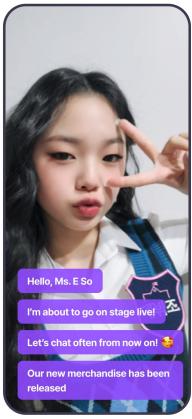


AI PERSO Live - Social Community

Al Human Chat

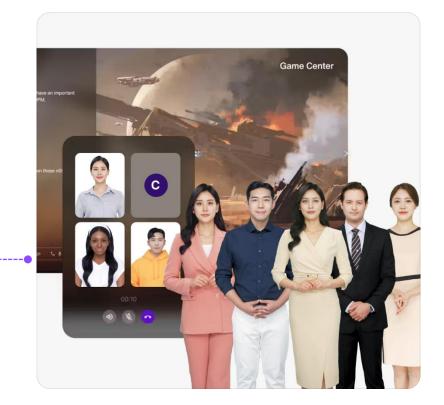
that increases user engagement and retention





Real-time interaction with celebrity Al
Humans and fans
Personalized message generation and fan
community provision

Provide free and vibrant 'video chat' through your own Al Human avatar







AI BUSINESS USECASE

AI BUSINESS

PARTNERSHIP



ESTSOFT AI BUSINESS

Drawing on our 30 years of IT expertise, advanced AI technology, core talent capabilities, strategic partnerships, and business experience, ESTsoft brings AI solutions to our customers' daily lives and operations. Our team of top experts is dedicated to enhancing business competitiveness and creating value through continuous innovation.





ESTSOFT AI PERSO LIVE

Conversational Al Human

Al Human Chatbot

▶ Video

Equipped with Al Human capable of real-time conversation

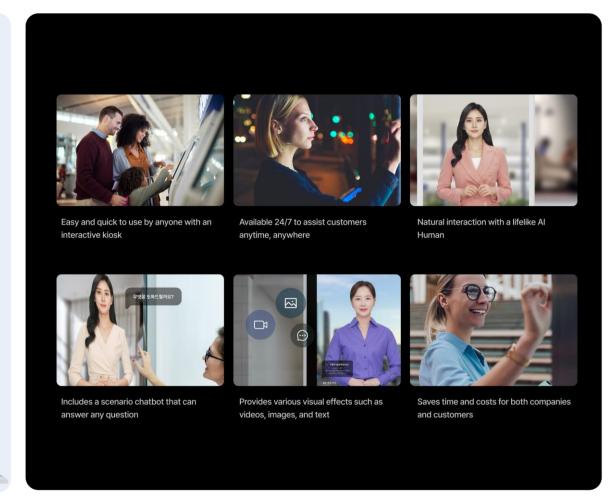
PERSO LIVE

- Integrating LLM with ESTsoft's Al Human
- Providing immersive conversation experience with high-quality AI Human through voice/text
- Implementing real-time conversation with AI Human through voice/text
- Customizable speech (response) style
- Multilingual support
- Usable across various devices and environments such as web, kiosks, and mobile
- Applicable for query response, promotion, and guide pages

[Examples]

- · Al Human chatbot for onboarding new employees' Q&A
- Al Human chatbot for new product launch promotion and Q&A







ESTSOFT AI HUMAN with ChatGPT

Conversational Al Human

JTBC <Newsroom>



Public Technology Demonstration

ChatGPT + AI Human Integration → AI Human answers questions with voice

- Integrating OpenAl's ChatGPT-3, provided as text-based, with ESTsoft's Al Human
- Implementing real-time conversation through voice between AI
 Human and ChatGPT
- First in the country, technology demonstration broadcasted live





Live technology demonstration on JTBC Newsroom



ESTsoft's AI Human answering the anchor's questions



SHINHAN CubeOn FACE SWAP (AI PILATES INSTRUCTOR)



- Collaborated to create Al Pilates instructors for smartphone apps.
- Convergence of 'Al Persona' and 'Face Swap' technology
- Applied ESTsoft's own Al Persona "Kim E-so (IP Contracted for partnerships)
- Successfully implemented technology that is associated with 'side angles' and 'large gestures'
- Provides long hours of videos in high quality up to 4K









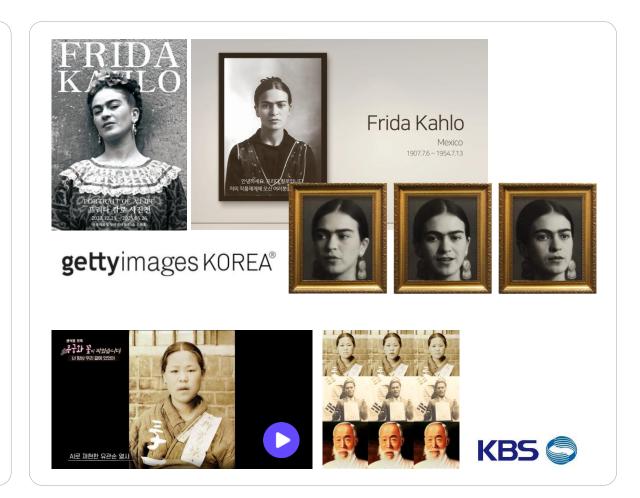
AI Exhibition with GETTY IMAGE

Signed a memorandum of understanding (MOU) with gettyimagesKorea to create and sell images using AI technology and promote new businesses (the largest image distributor in Korea)

Al image exhibition and content business

Recreating Celebrities and Historical Figures Using Al Technology

- · Developing Exhibition Business Using Al Technology
- · "Frida Kahlo Photo Exhibition' Successfully Concludes (March 2023)"
- Recreating 'Moving Frida Kahlo' Using Al Technology
- · Preparing Exhibitions for Other Western Painters Besides Frida Kahlo
- · Al Technology Support for KBS Liberation Day Special Documentary 'The Rose of Sharon Has Blossomed' (Aired on August 15, 2023)
- · Photos of Korean independence activists Yu Gwan-sun, Yun Bong-gil, and Nam Gung-eok were converted into talking and moving videos using Al technology.





Signed a memorandum of understanding (MOU) with gettyimagesKorea to create and sell images using AI technology and promote new businesses (the largest image distributor in Korea)

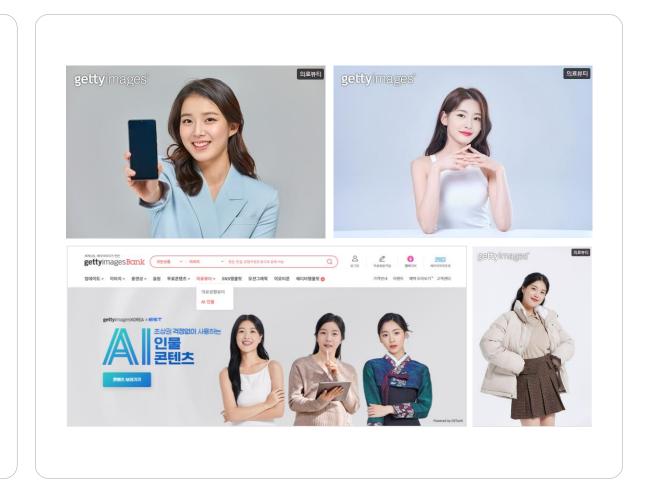
AI IMAGE / VIDEO CREATION with GETTY IMAGE

Al Image Stock Business

Al Human Content Sales Page

with **getty**images KOREA®

- Image stock platform 'gettyimages Bank'
- Creating and selling portrait images using AI technology
- ESTsoft creates 'Al Persona,' Al humans without portrait rights restrictions
- Implementation of transformed images based on commands through deep learning
 - → 'Face change, makeup application, clothing creation' and more
- Launch of Al Human generated images in the [Medical Beauty] category (Q1 2023)
- Expected to be used for promoting procedures and treatments, hospital marketing, and beauty promotions that general models are reluctant to use their likeness for





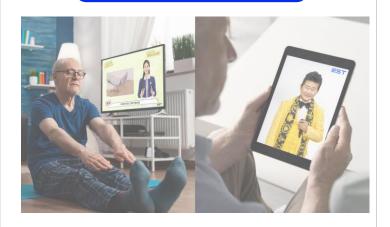
AI Senior Care Platform

ESTSOFT Senior Care Business

MTN News



EST AI Senior Care



One-way

Al Senior content production

Al Human Happy Singing Class Senior Health Play Classroom Entertainment Content

Two-way

Al Senior care service

A Companion Service for Seniors' Leisure Time Celebrity/Grandchild Al Humans

EST

AI BUSINESS

Al Senior Care Platform



In January 2024, ESTsoft opened a senior care center in Gimhae city (36 centers).

By 2026, We plan to expand by an additional 136 centers.

Development of personalized services at each center using PERSO

Take Responsibility for Senior Lifestyle

24/7 Al Human care for senior

- Creation and distribution of senior care content using AI humans:
 - Famous trot singer Tae Jin-ah's singing class content.
 - Co-Creating content with Yonsei University Lifelong Sports Research Lab.





- Expected Benefits:
 - Enhanced senior leisure activities with expert singing classes and cognitive content.
- Improved self-examination utility for the elderly with 24/7 accessible AI humans.
- Easier health management and disease prevention through personalized health Check services.











[Al Human Health Check]

Authentification via Face > Health check > Data > Warning / Care service

EST

AI BUSINESS

AI Senior Care Platform



A real-time, emotionally interactive AI human service

User-friendly AI human for emotional stability, health management, and coaching

Signed a project with the Ministry of Health and Welfare's National Rehabilitation Center,

with plans to distribute a senior-specific AI human service in 2024

Taking responsibility for the emotions of seniors!

An interactive AI human service that provides emotional stability.

- 1. Al human chatbot solution integrating Al human technology and LLM models:
- Acts as a companion for seniors, providing emotional stability through immersive and realistic conversations.
- Delivers practical information, health management, and coaching.
- Offers a senior-friendly UX tailored to different situations.

2. Al Clone and Persona Human-based Chatbot:

- Implements AI humans using a variety of personas.
- Creates AI clones that replicate the appearance, voice, and identity of real individuals, such as celebrities or grandchildren.
- Produces AI personas with unique appearances and identities never seen before.

3. Signed with of Health and Welfare

- Building an intMinistryeractive AI human chatbot platform to assist with senior health management.
- Anticipating the advancement of AI human technology and the development of senior-specific AI services.







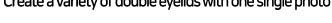


A 'personal branding app' that helps users to find the style and self-awareness

Al Personal Branding App beMe

Virtual Cosmetic surgery Create a variety of double eyelids with one single photo















Style recommendations

Al recommended fashion style-Hair style, Hair color and Clothing







Example of Using EST AI Technology

1

In any content, any appearance of your choice

Generate Al clone/ Al persona of your choice
Face Swap with the preferred appearance on pre-recorded video
and images of people

 Al Human suitable for brand identity with no restrictions on use of portrait and voice rights



2

Conversational Al Human

Provide unique customer experience with Al Human embedded APP/WEB

- Use as online KIOSK where users can interact with conversational
 Al human just by accessing the App/Web page.
- Provides a personalized customer experience (CX) similar to face-toface service by using AI human customer consultation, campaigns, and promotions.

ex) Al new car launching information dealers, department store VIP lounge customer service kiosks







Example of Using EST AI Technology

3

Internal/external communication content

Highly effective & informative video with AI Human

- Internal: New recruits on-boarding, employees training/ education/ communication
- External: YouTube Channel content, Promotions & Event information





4

Multilingual content

Produce video with language of 110 countries with MS TTS

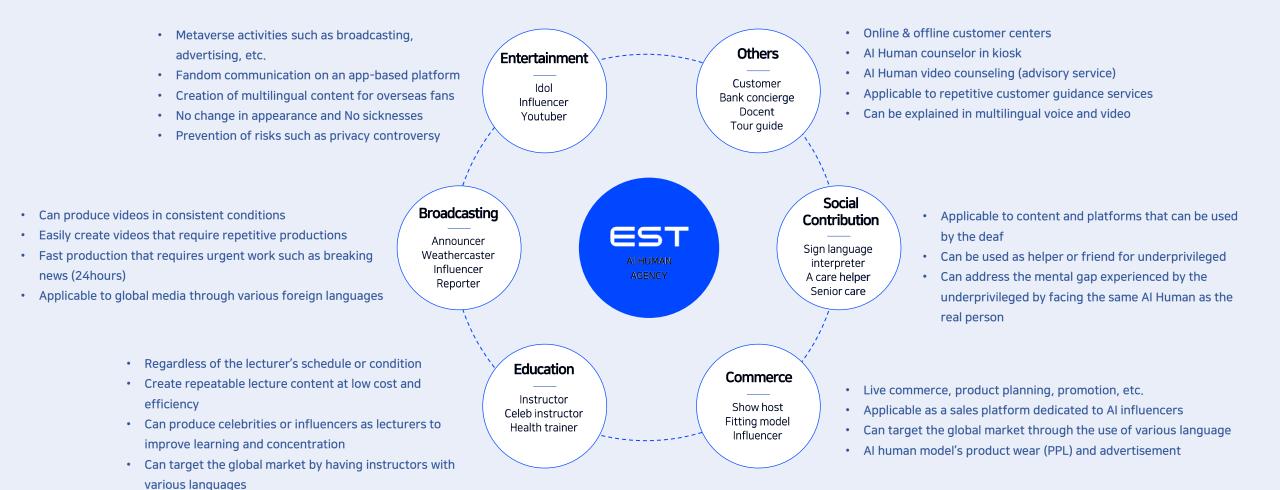
- By offering training materials for local employees needed by overseas branches in their language, saves costs and increase immersion in training.
- Produce promotional videos in the language of each target market.





AI HUMAN BUSINESS EXPANSION

ESTsoft is leveraging its branded AI technology to penetrate various industries. Through the diversification of profitable business models, we are taking a big leap forward as a leader in the METAVERSE space.





Partnerships with Leading Companies







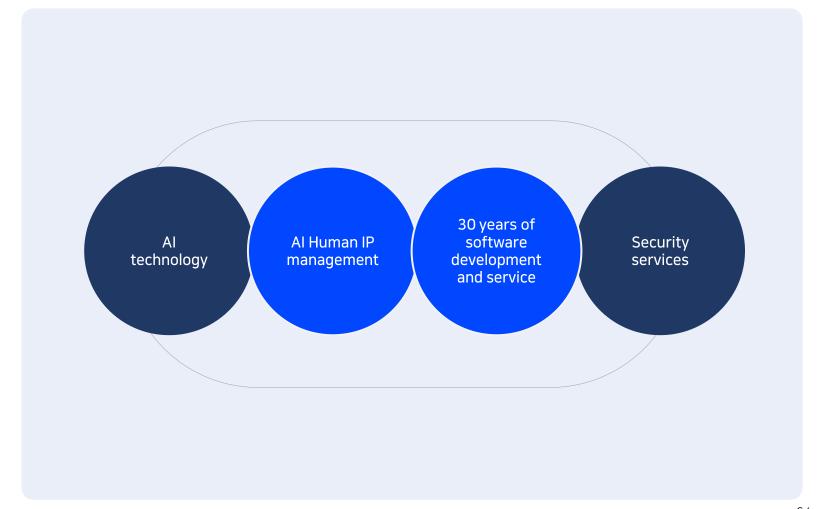
WHY EST_{SOFT}

Key Strengths



EST AI HUMAN

ESTsoft leads the innovative change in content creation with AI Human and offers opportunities for business growth in a variety of industries. With 30 years of software development & service providing experiences, we are now focusing on AI business having IP & content management experts.





EST AI HUMAN

Unique Features of ESTsoft's AI Human



- Creates faces does not exist in the world.
- Successfully commercialized
- Creates both "Real" and "Virtual" human
- Can customize based on the user's needs



- High-quality & natural Al Human
- Side angle (First & only in Korea)
- Faster videos production speed
- Supports high resolution up to 4K



- Has specialized experts in IP management
- Maintains a high understanding of IP and its content



- Reliable and sophisticated SW solutions and full security competences
- Easy to use
- Provides a wide range of editing functions and continuous enhancements
- Provides unlimited videos



- Recruited professional directors in-house and owned studios for Al Human services
- Can create Al Human-related creative content fast and reliably



- Highly focuses on our partners as a running mate
- Possesses leading manpower with agile communication skills etc.



Natural & High Quality

Al Human will be a "Brand" of our clients.
ESTsoft's goal is to offer Al humans a high level of quality that closely resembles real humans, creating a natural and realistic experience.

- · Natural movements and facial expressions
- · Lips as sharp as the face
- · Mouth shape that synchronizes perfectly with text when speaking









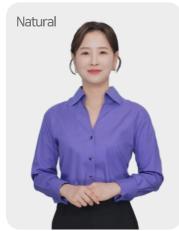
Only ESTsoft in Korea "Side angle" & Gestures

- Through our long-term research in AI, we have successfully developed a pioneering technology in Korea known as the "side angle" view.
- The left and right "Conversion" functions can be utilized to show both angles
- Different speech poses are applicable depending on the mood of the content
- Able to provide various visual effects when creating content





Side angle available for use







Speech utterance options provided (More functions & options under development)



Professional IP Management

Countless AI humans, differentiated and meticulous content IP capabilities are important.

- Specialized professionals in IP management
- Understanding of IP and content
- · Creating customized AI Humans with sophisticated visuals for each client
- Providing legally reliable and safe-to-use AI Humans (Free from IP licenses)

EST AI Human stands out both TECHNICALLY and VISUALLY.









Sophisticated EST concept Al Human



Robust AI SOLUTIONS & Continuous TECH advancement

AI R&D with Competent Experts

20+ AI data professional labelers

- Recruited In-house Data intelligence team
- Many experiences in data establishment for R&D & Projects
- · Has experience in successfully completing government projects
- Uses self-developed annotation tools for data processing
- Recruited in-house Quality control specialists and conduct weekly quality inspections and analyses to improve the output and other issues

50+ AI Tech Researchers & SW Development Experts

- Graduate-level researchers in Tech Center, AI professionals, SW developers
- Researchers with advanced deep-learning research papers
- 30 years of commercial SW development system and know-how
- Software flagship with more than 30 million clients; individuals, government, and, educational institutions etc.
- · Proven cyber-security software technology and management skills
- Successfully commercialized "ROUNZ Mirror," a virtual fitting solution

Proven Al technology



3 consecutive years of ministerial awards at "Al Grand Challenger" hosted by the Korean Ministry of Science and Technology.



Ministerial Awards (Grand prize) at "Korea's Artificial Intelligence Awards 2022"



Robust AI SOLUTIONS & Continuous TECH advancement

Multilingual TTS

(Text-To-Speech)

Multilingual TTS

By learning only one language, It can speak multilanguage



STV (Speech-To-Video)

Convert speech to video

It is possible to produce videos that Al humans speak using simple voice recording



PTV (Picture-To-Video)

Convert image to video

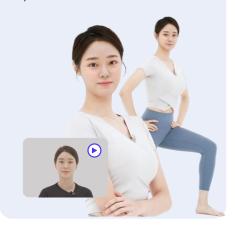
You can produce an Al human with the face of the person you want with just one image of the person you want



VTV (Video-To-Video)

Convert video to video

Face swap with another person in the video



Stable Diffusion

Convert a specific part of the image to text input only

You can change the makeup, outfit, and hairstyle in the image in a simple way



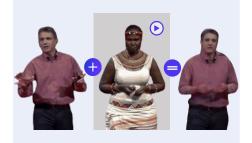


Robust AI SOLUTIONS & Continuous TECH advancement

Motion Retargeting Replicate the movement of a

Replicate the movement of a particular image in an image

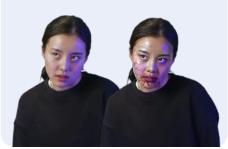
Enables images to replicate certain movements to move along



SimSwap

Replicate the appearance of a specific person as the original image properties

Face Swap with the appearance of a particular person/object while retaining the unique attributes of the original image (Special makeup can be produced, etc)



Real-time Chatbot

Real-time chatbot linked to ChatGPT

Real-time interaction AI Human Chatbot



Voice Conversion

Voice Conversion

Convert target voice to desired voice and tone





Top quality STUDIO & AI Professional Director











· In-house Al Human production studio with world's highest specification, which can be produced with the highest image quality (8K)

· Built our own Internal network that allows the captured data to be sent directly to relevant department

· Strengthened the competitiveness of high-quality Al Humans by utilizing high-quality video and voice data

· AI AI Human specialist (in-house): Strategy/filming/production ESTsoft's specialists enable the most natural and diverse sty les of AI Human



Thorough Security Services & Sophisticated SW Solution provider

We are the leading cyber-security company with over 20 million downloads and around 200 million cases of eradication per year. We prioritize the protection of our AI technology, from data security to endpoint security and deep learning security, with reliable security competences.

By providing dedicated servers for our clients, we maintain more security and produce content that is sensitive to security for each customer with confidence.

We provide a more stable environment for services through 30 years of SW development career.

As a leading Al company, we have established and complied with the Code of Ethics and provide services that customers can use with confidence.

ESTsoft's AI Human envisions the next 10 years.

As we prepare for a future where we coexist with Al humans, we prioritize respecting their personalities and ensuring the ethical use of Al humans.

We create Al humans with the best Al technology and protect Al humans with the best security technology.

ESTsoft's AI code of ethics

Respect for human

We place the highest value on human dignity and respect the unique personalities of both human and Al individuals.

Social Contribution

Our Al technology strives to benefit society and make positive contributions, integrating our Al human beings as members of the community.

Fairness

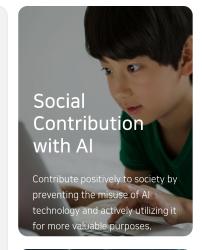
We are committed to preventing discrimination and bias and embracing diversity in all aspects of our practices and outcomes.

Ethical value

We comply with our society's ethics in the data collection, management, and algorithm development processes.

Safety

With top-notch security technology and extensive experience, we guard against cyber threats and take rigorous measures to safeguard personal information and all data involved in Al development.







Technological Strength

Realization of Both 'Real' and 'Virtual'

- "Real" or "Virtual" human according to the user's needs
 - · Al Clone is an avatar representing a real person
 - · Al Persona is a creation of a new identity
- Customizable to client's requirements

High resolution up to 4K

- · Download high-resolution video from FHD to 4K Video
- · Applicable to transmit to large screens

Unlimited content creation

"Whenever you need and as much as you want"

Fast production speed

- Video production speed is 0.4 times faster than the original video length, which is much faster than other companies' solutions
- Voice & video preview functions allow the users to check results faster

Various features and continuous development

- Pose / angle selection, PPT & Text file loading, video preview, etc.
- Continuous product advancement provides upgraded functions





MEDIA

Media / News

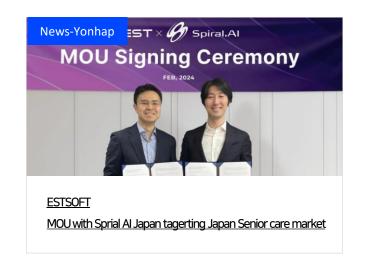


MEDIA / NEWS

Media / News Reporting















EST AI Business 76

synchronization was broadcasted live



MEDIA / NEWS

Media / News Reporting



ESTsoft Wins MSIT Minister's Award in Al



ESTsoft's Al Innovation



[Al Grand Challenge Season 1 : Grand awards - 3 consecutive years of ministerial awards "



[ESTsoft launched Al Human Video service: Al Studio Perso



[2022 KOREAN AI AWARDS Grand prize "We will strengthen pragmatic AI services"]





대표 홈페이지 estsoft.ai

PERSO 홈페이지 studioperso.ai

제휴 및 사업문의 perso@estsoft.com





EST

PERSO 홈페이지

Contact