

# Press Release

## Smaller Than a Photo — Korea's 44KB AI Could Transform Refugee Child Protection

**Seoul, Republic of Korea — August 2025** — A 44KB ultra-lightweight, rights-based AI, co-developed with GPT-5, has been unveiled as a groundbreaking model for protecting children with disabilities and strengthening refugee self-reliance. This AI system can be assembled and maintained directly by refugees, functions fully offline, and establishes a protection infrastructure in camps using only solar power and low-cost chipsets. To highlight its radical efficiency: one typical smartphone photo is about 3,000KB — this entire AI is just 44KB.

Unlike traditional AI systems that rely on large-scale servers or corporate data flows, this project demonstrates that AI can be built for dignity, not profit or surveillance. Within 44KB, the AI delivers:

- Real-time detection of violence
- Early medical emergency identification
- Safety alerts for vulnerable individuals
- Transparent food and resource tracking

Beyond child protection, the project showcases extreme miniaturization: a browser-based game and full offline tools are integrated within a 197KB total system. This opens new paths for ethical AI deployment in low-resource, high-risk environments — without Big Tech dependence.

### Quote

“We didn’t build this for profit or for data — we built it for dignity,” said Gyu-min Jeon, project coordinator. “It shows what’s possible when technology centers on refugees’ own hands, not just global platforms. For future iterations, human expertise — not just GPT — will be key.”

### About the Project

The “44KB Offline AI” is a humanitarian initiative from the Republic of Korea, aligned with the UN Convention on the Rights of the Child (UNCRC) and the Convention on the Rights of Persons with Disabilities (CRPD). It is fully non-commercial, privacy-compliant, and intended for real-world deployment in refugee camps worldwide.

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