DR. J ^{AI}

BEYOND
Diagnostic Assistance

AI-Powered Ultrasound Breast Cancer Screening Robot

Outreach Gateway for Client Growth

Why Choose AI + Ultrasound
for Breast Cancer Screening?

Accuracy
High specificity and sensitivity, comparable to expert-level performance.

Efficiency
AI analysis delivers rapid, efficient results.

Safety
Non-invasive, painless, and radiation-free.

Reliability
Extensive validation by leading hospitals.

Coverage
Identifies different lesions precisely.

Accessibility
Adaptable across multiple screening scenarios.

Powered by AI Technology

Beyond the Hospital: Early Screening · Community Outreach · Driving Patient Growth

Within the Hospital: Advanced Clinical Support

DR.J AI

AI-Powered Breast Cancer Screening Robot

Core Technology: J-Net & LVM 4U

Powered by our proprietary **Large Vision Model for Ultrasound (LVM4U)**, trained on **34 million+** real-world ultrasound datasets. **Unlike** traditional static analysis, Dr. J processes **dynamic video streams** in real-time, capturing micro-lesions as small as **2-3mm**.

Patented Innovation: Dynamic video analysis technology.

Global Recognition: Validated by top U.S. experts as having "immense value for global deployment."

Dr. J: End-to-End Integrated Solution

Technology Innovation: AI + Ultrasound + Big Data + Cloud Computing + Internet
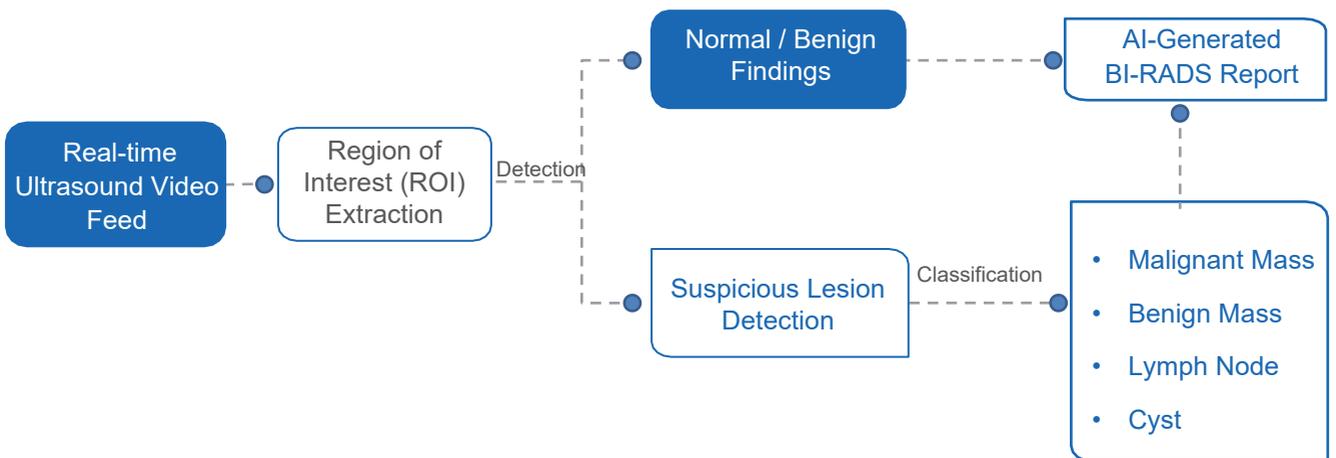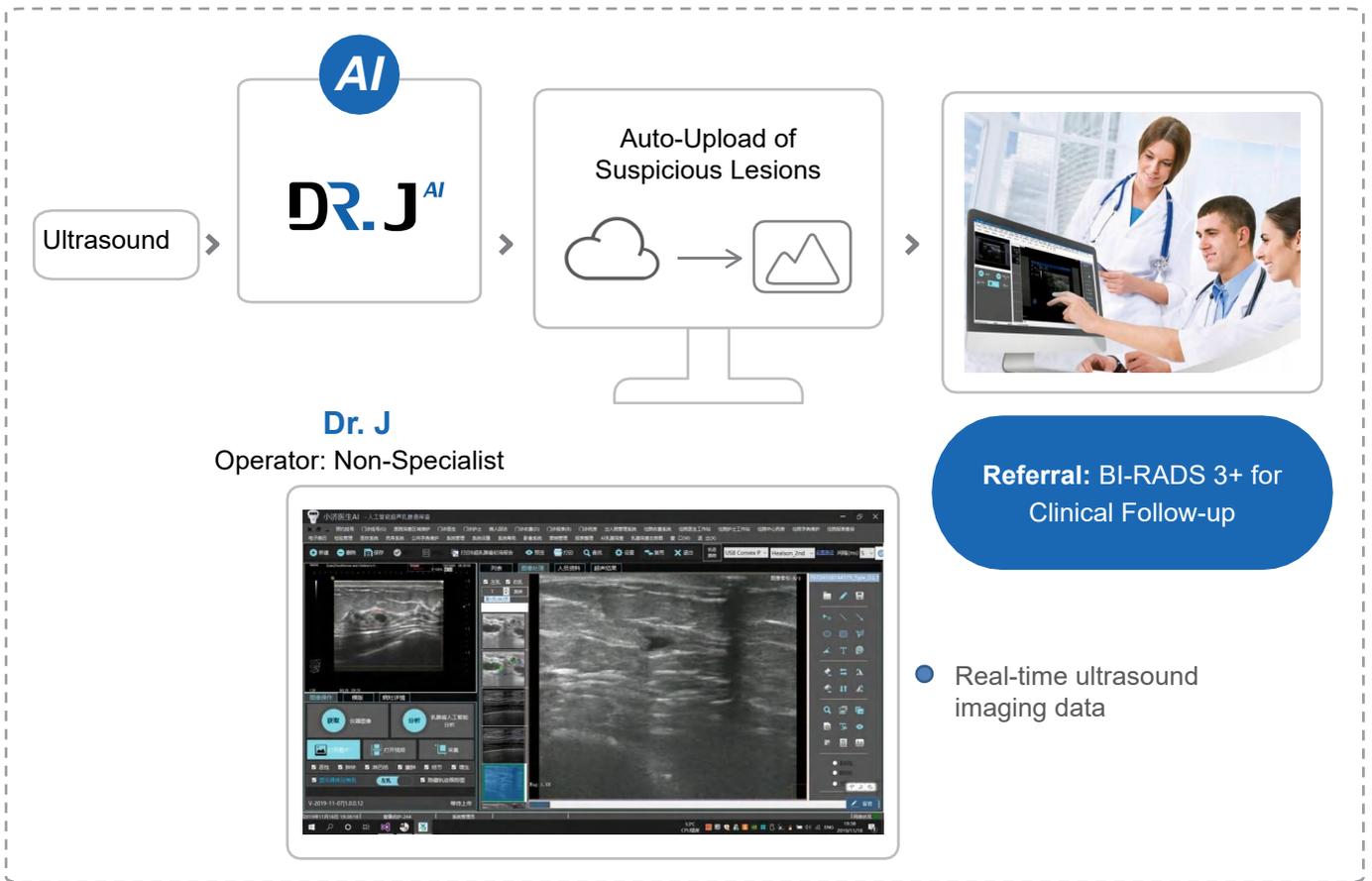
AI + Ultrasound + Big Data + Cloud Computing + Internet

Dr. J AI Workflow Diagram

Ultrasound

AI

DR.J AI

Dr. J
Operator: Non-Specialist

Auto-Upload of Suspicious Lesions

Referral: BI-RADS 3+ for Clinical Follow-up

● Real-time ultrasound imaging data

Real-time Ultrasound Video Feed

Region of Interest (ROI) Extraction

Detection

Normal / Benign Findings

AI-Generated BI-RADS Report

Suspicious Lesion Detection

Classification

- Malignant Mass
- Benign Mass
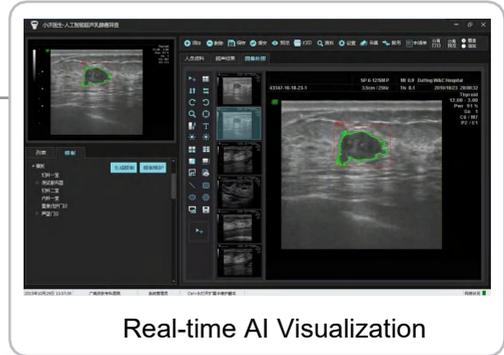- Lymph Node
- Cyst

Powered by LVM4U: The World's Largest Ultrasound AI Model Trained on 34 Million+ Real-World Data for Unmatched Precision

Integrated AI Screening Solutions
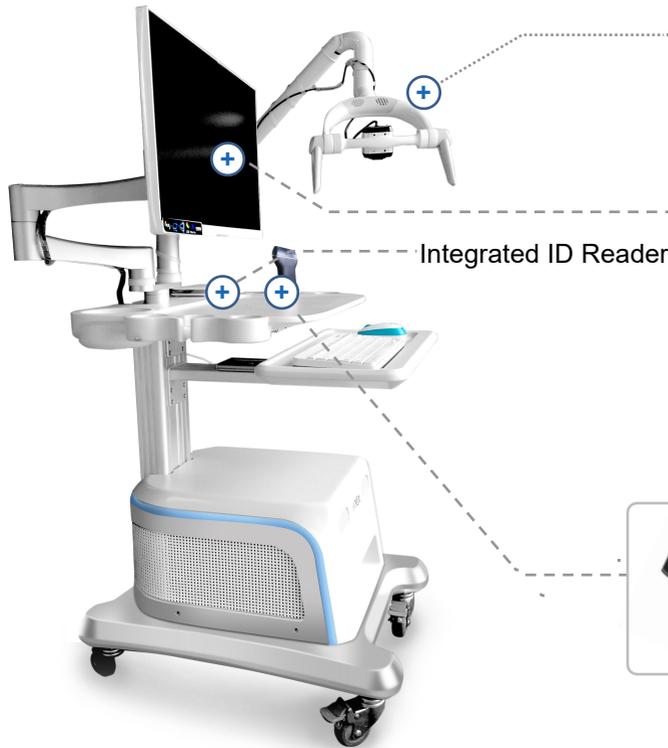
Ultrasound Probe Tracking

Lesion Localization & Labeling

Blind Spot Detection

Real-time AI Visualization

Integrated ID Reader

Smart Ultrasound Probe

Dr. J Smart Workstation

Dr. J Portable

Standardized Screening Protocol: Utilizes a **3D positioner** to ensure full coverage, allowing **non-specialist** operators to perform expert-level scans with minimal training.

Solves Staff Shortages: Empowers medical facilities by significantly reducing the dependency on **highly qualified ultrasound specialists.**

Versatile Deployment: An AI-powered robotic system essential for diverse scenarios, from **in-hospital wards** to **outpatient screening.**

Images are for reference only; actual product may vary.

Challenge 1: Global ultrasound specialist shortage & supply-demand imbalance.

2: Difficulty in early detection (asymptomatic)

Comparison of Conventional Methods

	Pros	Cons
Clinical Breast Exam	Flexible location, low cost	Subjective assessment Relies heavily on experience High rate of missed diagnosis Unsuitable for mass screening.
Biopsy	Gold standard for diagnosis	Invasive procedure Limited to hospital settings Relatively high cost
Mammography	Detects microcalcifications well	Radiation exposure Ineffective for dense breasts Bulky & expensive equipment Requires specialized Radiologists
Ultrasound	Non-invasive, radiation-free; good for dense breasts, low cost and portable	**Highly dependent on ultrasound specialist skill** **(Solved by Dr. J.)**

The Dr. J AI Screening Model

Streamlined, Scalable, & Efficient

Mass Screening
Operator: General nurse
Key: No expert needed

Dr. J AI Analysis
Solution:
Real-time detection

Precision Triage
Outcome:
Auto-identify **BI-RADS 3+**

Medical Referral
Action:
Expert confirmation & treatment

10x Efficiency Boost!

Dr. J: Guardian for Early Breast Cancer Detection

The "Three Earlies" Strategy:
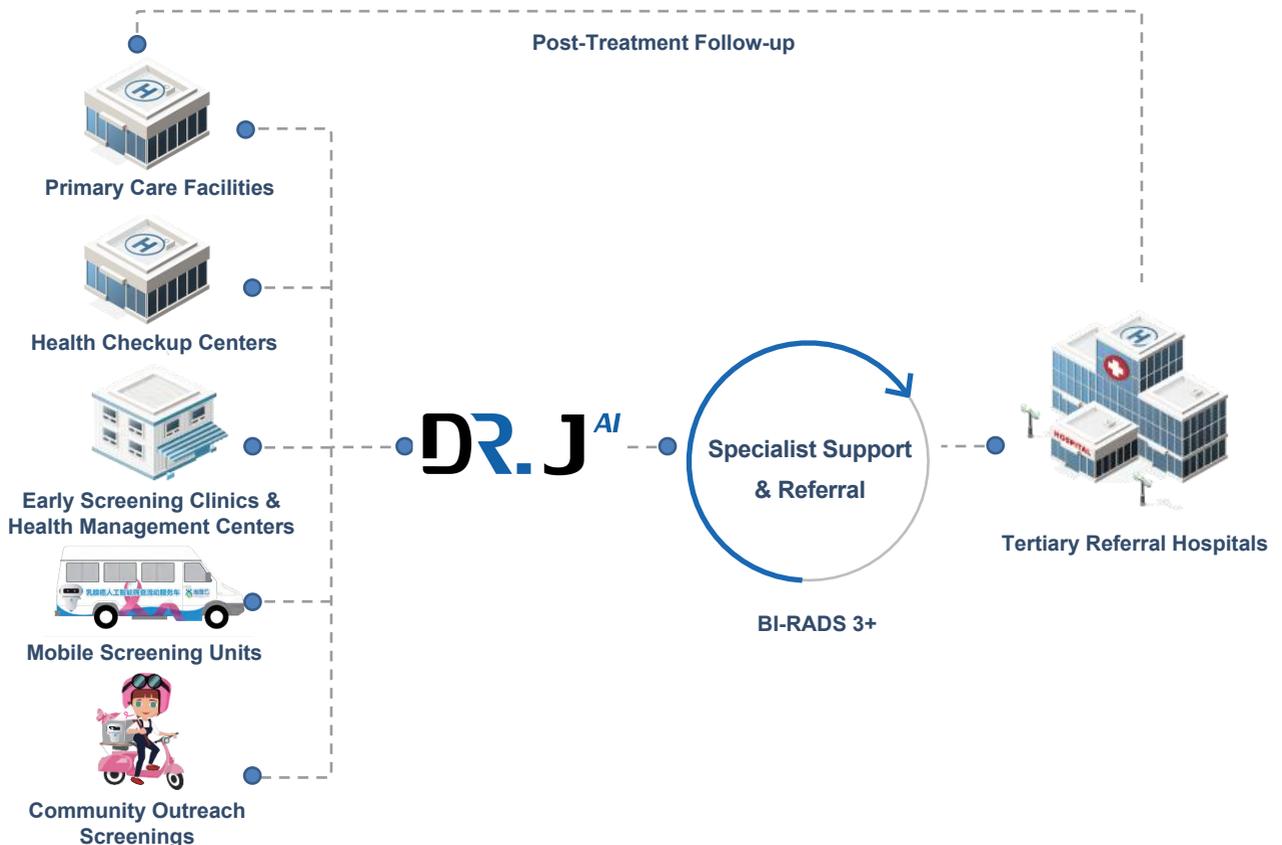Early detection, diagnosis, and treatment to boost cure rates to >80%.

Optimized for Dense Breasts:
Ultrasound is the preferred modality for dense breast tissue, perfectly complementing mammography.

Decentralized Screening:
Dr. J empowers primary care facilities to perform ultrasound screening, solving the specialist bottleneck and making healthcare accessible to all.

Regional AI-Powered Screening Network

Post-Treatment Follow-up

Primary Care Facilities

Health Checkup Centers

Early Screening Clinics & Health Management Centers

Mobile Screening Units

Community Outreach Screenings

DR.J AI

Specialist Support & Referral

BI-RADS 3+

Tertiary Referral Hospitals

Dr. J Closed-Loop Ecosystem
For Breast Health Management Centers

DR.J AI

Dr. J AI Smart Breast Health Assessment Clients Acquisition & Traffic Driver

BI-RADS 4+ (High Risk)
~ 1-2% population

→ Fast-Track Hospital Referral

BI-RADS 3
~ 10-15% population

→ Fast-Track Hospital Referral

Virtual Care Platform

Therapeutic Management (Nodules/Cysts)

BI-RADS 2
~ 10-15% population

Breast Wellness SPA & Therapy

BI-RADS 1
~ 75% population

Functional Supplements & Wearables

Customized Health Insurance
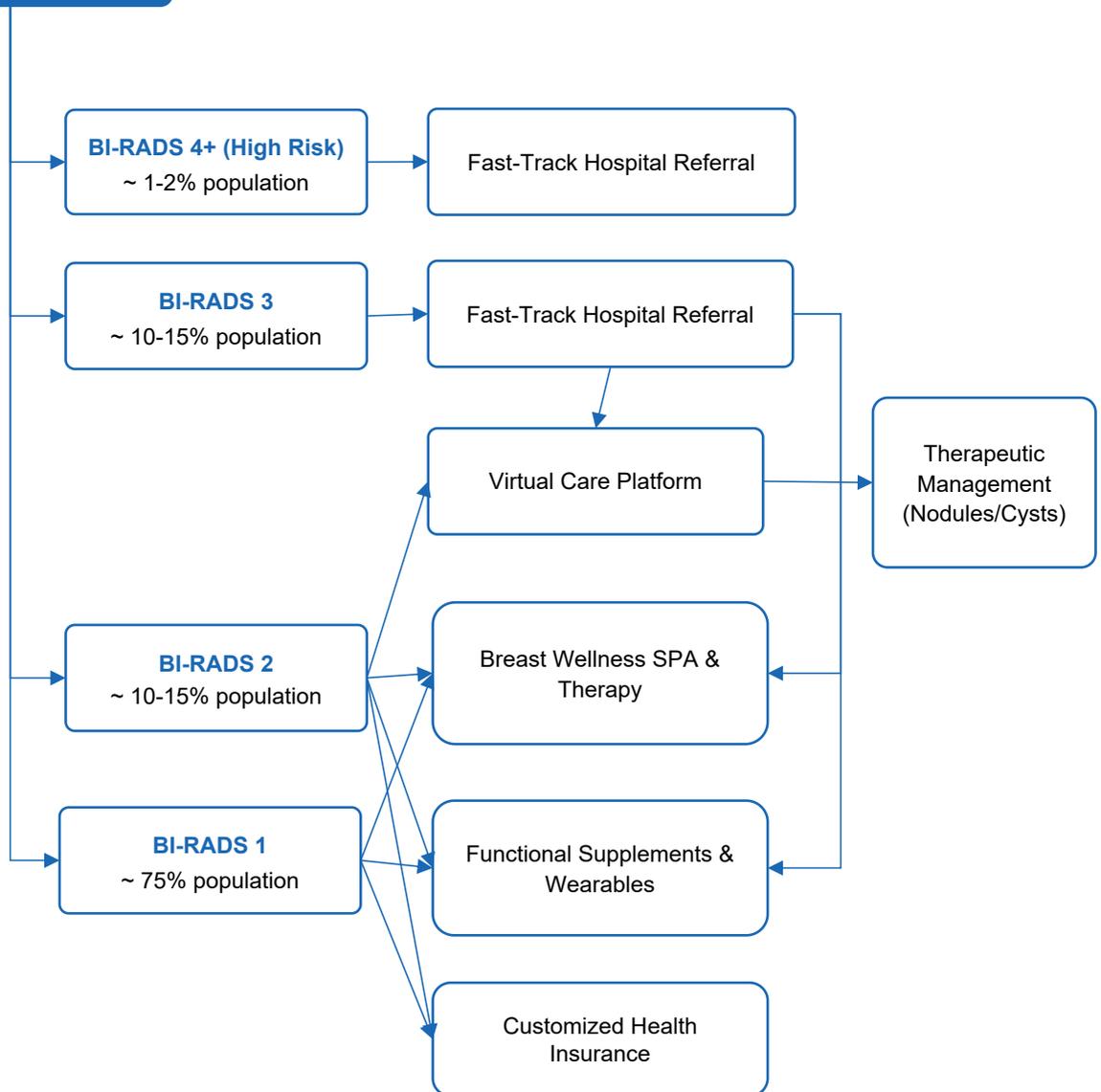
Closed-Loop Breast Health Management Ecosystem

AI Robotic Screening System
Validated by large-scale government "Two-Cancer" screening programs

Front-End: Community Outreach & Screening

Integrative Therapy Platform
Combining physical therapy, pharmacotherapy, and holistic wellness services for comprehensive care.

Mid-Stage: Clinical Treatment & Therapy

Smart Wearables

Anti-Aging Aesthetics

Body Contouring Wear

Wellness Supplements

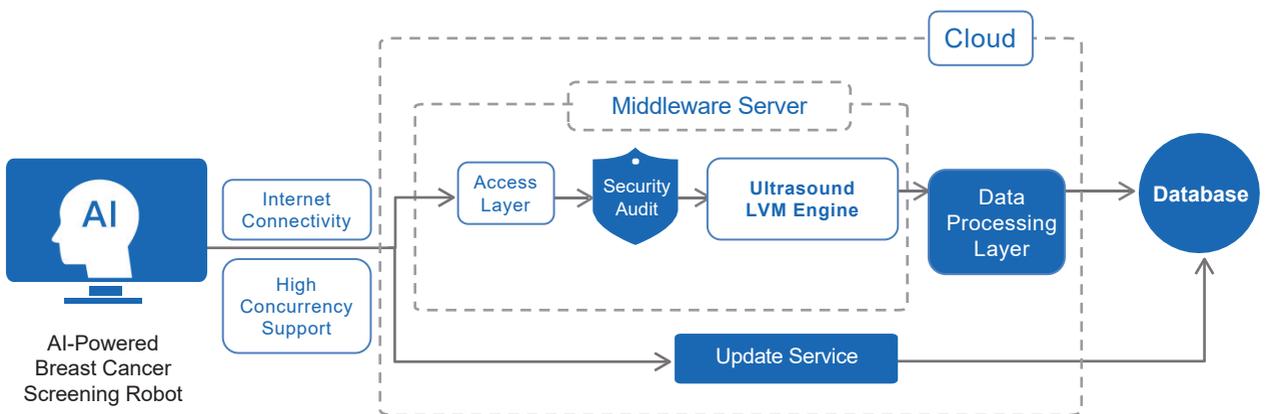**Back-End: Post-Care & Value-Added Services**

iCare365 AI Cloud Platform

01 / Data Infrastructure

Breast Health Big Data Center

Patient Demographics	Ultrasound Imaging Data	Scan Trajectory	AI Analysis Data
Screening Reports	BI-RADS Data	Risk Assessment Data	QC Audit Logs

Data Acquisition	Data Management
Data Security	Data Quality

Big Data Collection

Hospitals   Maternal & Child Centers   Rural Health Clinics   Community Health Centers   Clinics   Checkup Centers   Mobile Screening Units   Screening Personnel

02 / Platform Architecture

Cloud

Middleware Server

AI-Powered Breast Cancer Screening Robot

Internet Connectivity

High Concurrency Support

Access Layer → Security Audit → Ultrasound LVM Engine → Data Processing Layer → Database

Update Service

03 / Key Features & Advantages

AI Ultrasound Screening Cloud Platform

AI Detection & Analysis:
Auto-detects lesions, differentiates benign/malignant, and generates BI-RADS reports automatically.

Smart Quality Control:
Real-time monitoring of scanning techniques to prevent missed spots.

Cloud Integration:
Seamless data upload, mobile report access, and online appointment booking.

Big Data Insights:
Regional screening trend analysis and risk factor assessment.

Compliance: Fully compliant with T/CPMA 014-2020 Standard.

04 / Proprietary Patents

Core Patented Technology: Smart Trajectory Tracking

Real-Time Tracking:
Tracks transducer movement to ensure **100% scan coverage** and prevent missed areas.

Smart Supervision:
Monitors **scanning technique** live and provides guidance to the operator throughout the process.

About Us

iCare365 Technologies, Inc.

Who We Are

Founded by a team of distinguished scientists returning from the U.S., iCare365 Technologies is a National High-tech Enterprise dedicated to AI and Cloud Computing in healthcare. Our core team, composed primarily of PhDs with deep expertise in medical AI, is driven by the mission of **"AI for Better Human Health."**

Our Innovation & Achievements

To revolutionize breast cancer screening, we developed "Dr. J", an AI Robotic Ultrasound System powered by our proprietary **Large Vision Model (LVM).**

• **World's Largest AI Screening Project:** Dr. J has successfully completed the world's largest known real-world AI ultrasound screening initiative.

• **Proven Accuracy:** Clinical data confirms that Dr. J's diagnostic precision meets or exceeds top industry standards.

Recognition & Vision

Our breakthrough technology has been showcased at **the World Internet Conference and APEC**, and featured by top-tier media including Xinhua News Agency. Honored with prestigious awards from the National Health Commission (NHC), Dr. J offers a scalable **"Chinese Solution"** for global women's health, particularly in developing nations.

Qualifications & Honors

We empower those healing the world.

WeChat

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