ModAstera Inc.

Accelerate medical AI development for 10X impact

Building a Future of Medical AI

ModAstera is a Tokyo-based startup offering a powerful platform that dramatically streamlines the development and deployment of medical AI. With MAEA, our proprietary Medical AI Engineering Agent, we automate everything from data processing to model building, compliance, and deployment, cutting development costs by up to 90% and enabling rapid creation of high-quality AI with no-code to full-code flexibility.

High Cost of starting and running AI projects

- From defining the solution to hiring engineers, the time and financial resources required across numerous processes are substantial.
- Typical Project Cost range: $150,000 - $500,000
- Development times for custom medical AI models can range from 6 months to several years through traditional development channels.

OpenXCell

# Complicated solutions for domain experts

- **Medical professionals have the insights, but current AI developing tools require skills they weren't trained to use.**
- **There are a number of large firms pursuing medical AI, but their solutions are rarely streamlined or efficient enough for effective custom usage.**
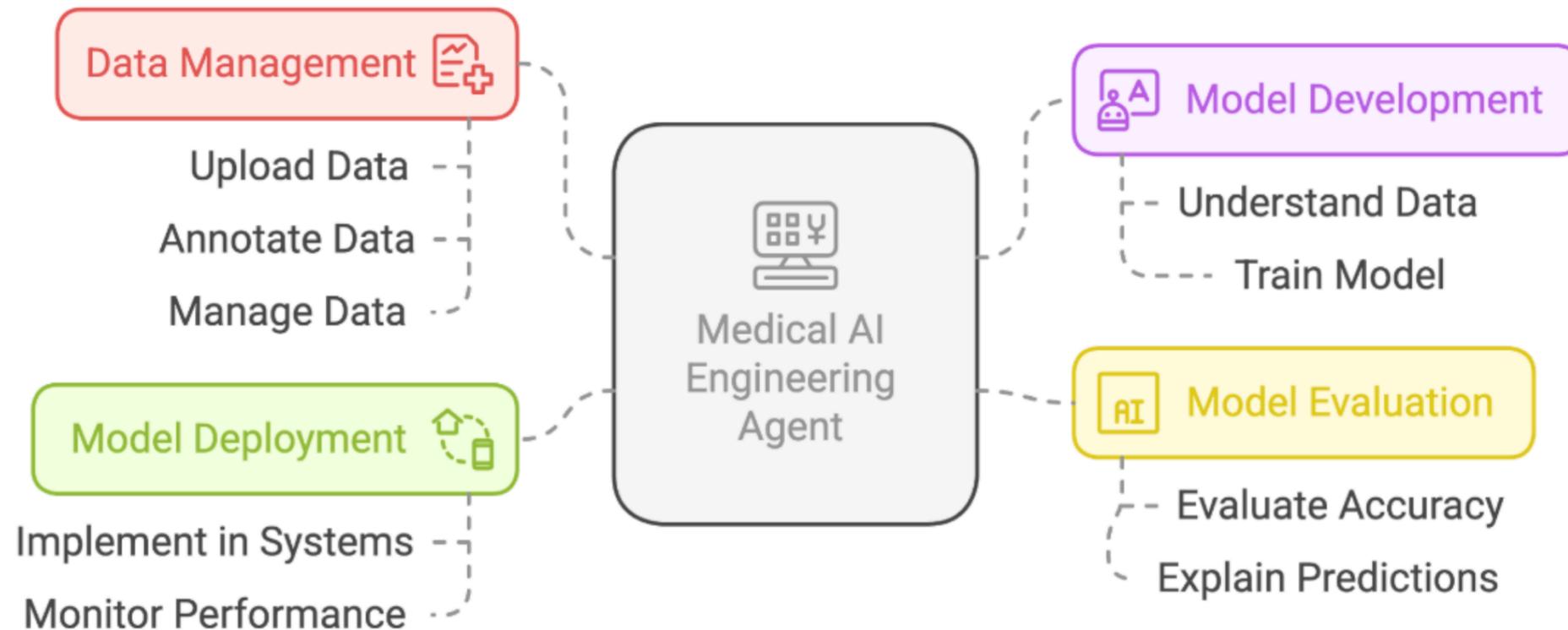
Binariks

Data preparation is time-consuming, slow and error prone, leading to poor AI models
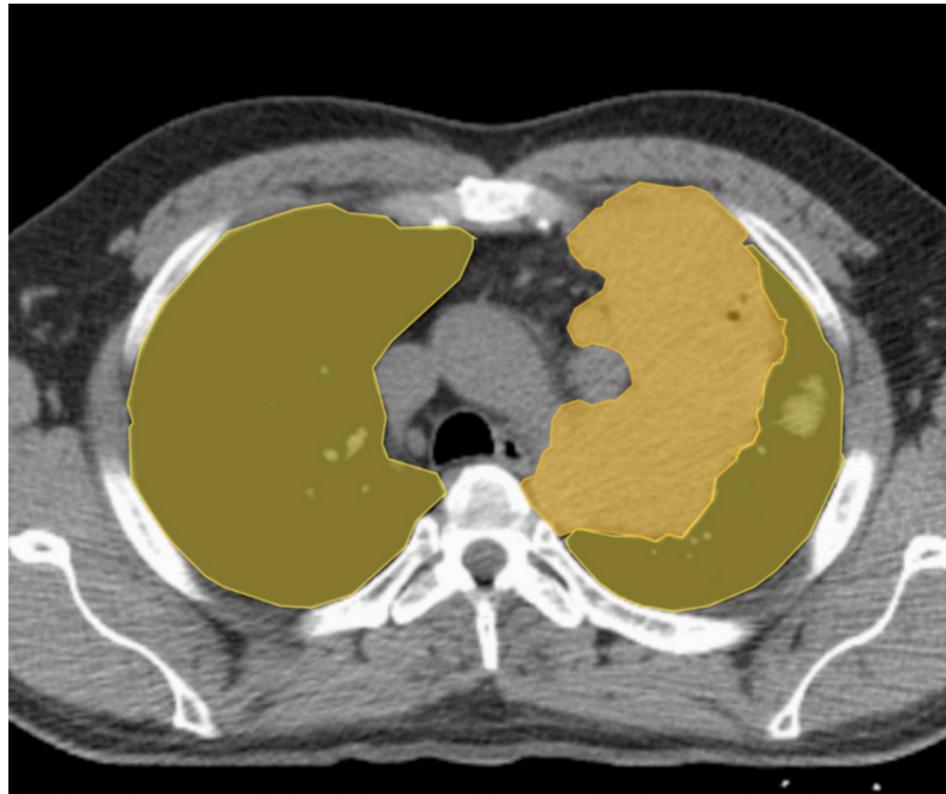
- Data preparation for medical AI often requires precise annotation and segmentation, which is an extensive process.
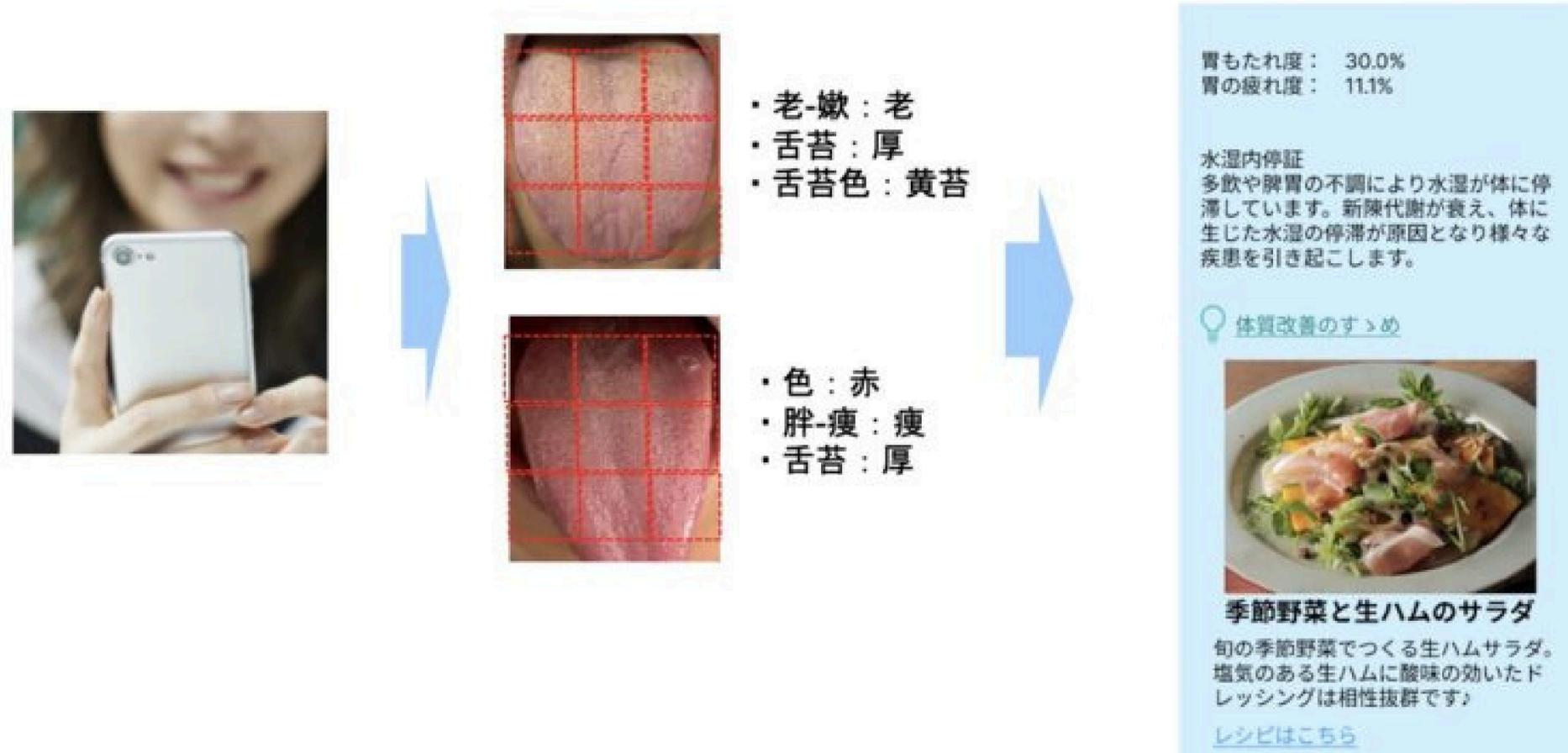- Accurate and high quality annotation is time-consuming.

Springer Nature

End-to-end platform with MAEA: Medical AI Engineering Agent

ModAstera

Data Management
- Upload Data
- Annotate Data
- Manage Data

Model Deployment
- Implement in Systems
- Monitor Performance

Medical AI Engineering Agent

Model Development
- Understand Data
- Train Model

Model Evaluation
- Evaluate Accuracy
- Explain Predictions

- AI model development with natural language
- Automated model design, training, validation, and deployment
- Accelerated R&D cycle from months to days
- Up to 90% cost savings

Accelerated Time-to-deploy

・老-嫩：老
・舌苔：厚
・舌苔色：黄苔

・色：赤
・胖-痩：痩
・舌苔：厚

胃もたれ度：　30.0%
胃の疲れ度：　11.1%

水湿内停証
多飲や脾胃の不調により水湿が体に停滞しています。新陳代謝が衰え、体に生じた水湿の停滞が原因となり様々な疾患を引き起こします。

体質改善のすゝめ

季節野菜と生ハムのサラダ
旬の季節野菜でつくる生ハムサラダ。塩気のある生ハムに酸味の効いたドレッシングは相性抜群です♪

レシピはこちら

Project:
- **Mobile application for predicting body composition from tongue images**

Outcomes:
- **Over 90% model accuracy**
- **Model ready for deployment in 30 days**
- **Over 60% cost savings**

Research and Model Prototyping
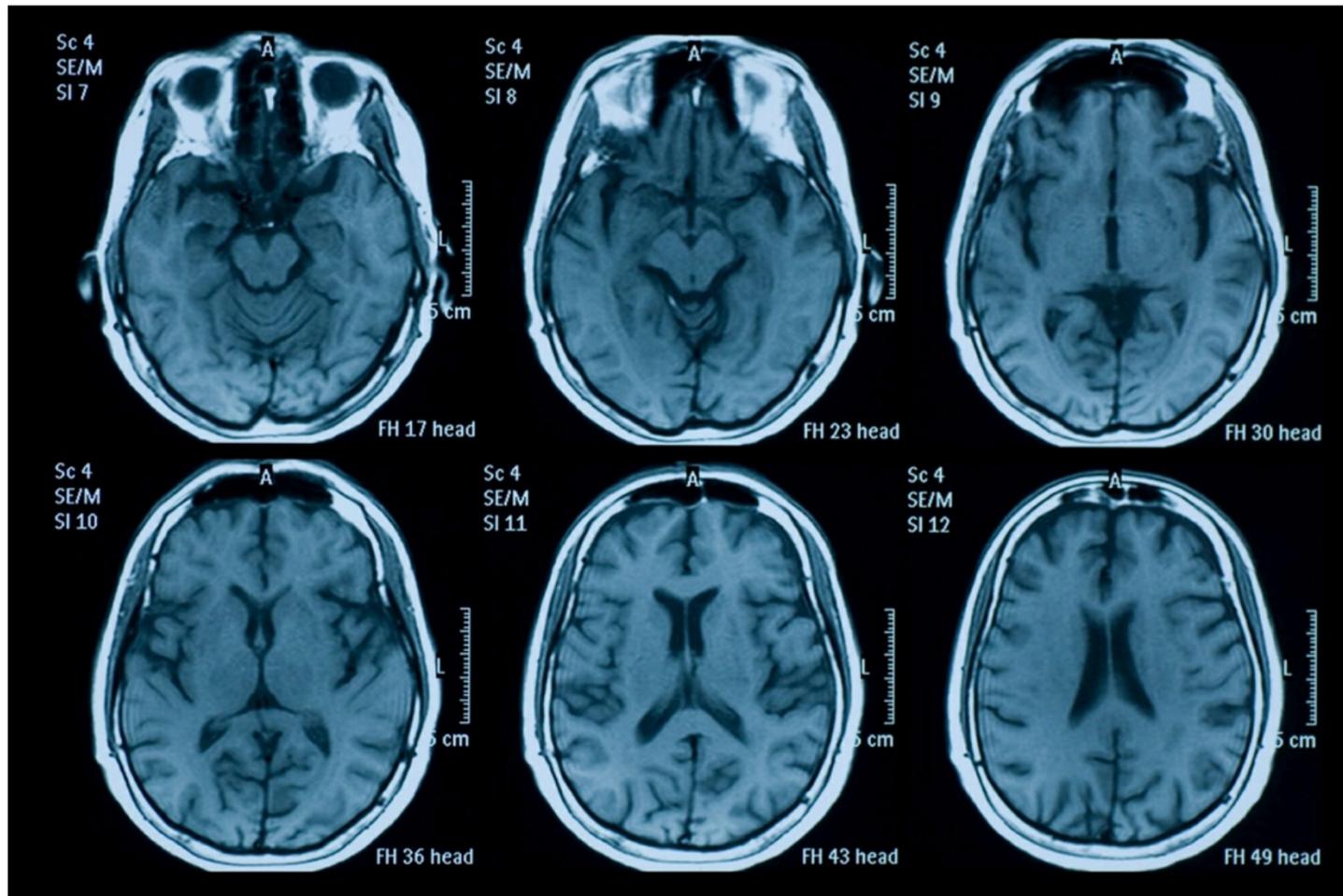
Project:

- **Model for predicting age and lifestyle from brain MRI**

Outcomes:

- **Model with performance on-par with state-of-the-art developed in days.**
- **Fast exploration of multiple model configurations and architectures.**

Workflow Automation for Regulatory Screening

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Project:
- **Automatically screen regulatory documents and offer advisory.**
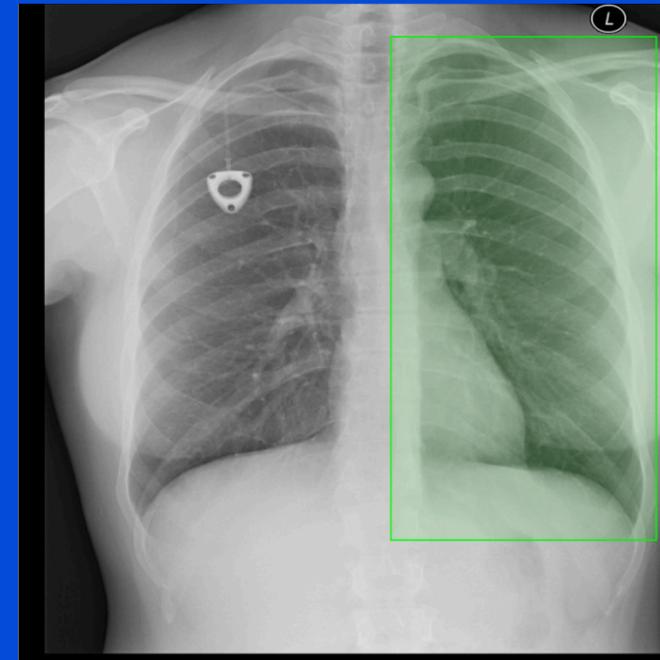
Outcomes:
- **Months of application backlogs cleared in a day.**
- **Tailored client advisory for high quality submission.**

Infinity Health

AI-assisted Annotation

- **One-click region selection which significantly boosts annotation efficiency**
- **Annotate one image or frame and MAEA does the rest automatically**
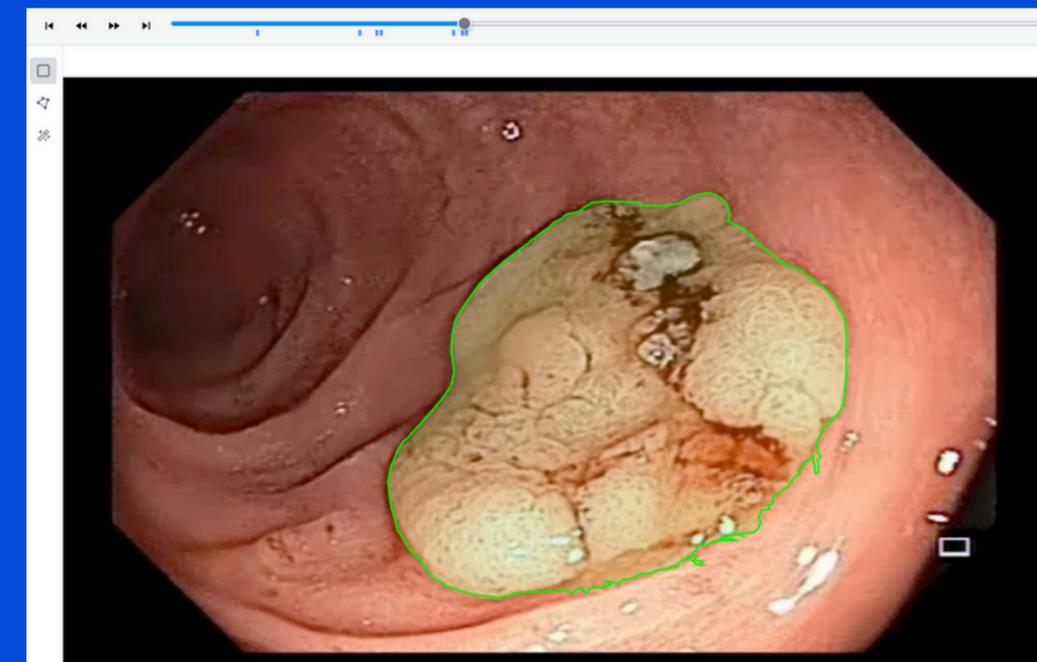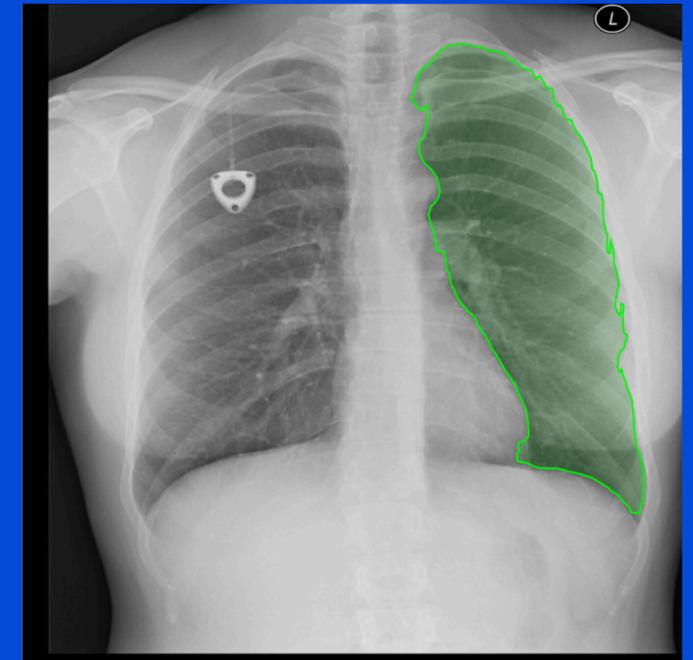
Unique Features

No-code model training with natural languge

- **All the model can be trained with natural language.**
- **This feature allows non-engineers to professionals to build, evaluate and deploy AI models rapidly and efficiently from a single interface.**

Core Team

ModAstera

Joshua Owoyemi
CEO

- PhD in Information Science, Tohoku University.
- 4+ years AI Research Engineer experience at Biotech AI startup.
- Creator of SmilesFormer: Language model for Molecule design and Optimization.
- Has built generative models for enterprise applications in drug discovery.

Tetsuro Mori
COO

- MBA | BSc in Computer Science.
- Promotion and marketing expert.
- Ex-CTO – Computer Vision Startup.
- Ex-PM at Rakuten USA.
- Ex-Zozosuit engineer at Zozo.

Mission

To empower health and medical technology innovators by providing an accessible, integrated AI platform that reduces development costs, simplifies workflows, and ensures compliance with healthcare regulations, enabling them to deliver transformative solutions and make the world a healthier place.

Vision

Be the platform and infrastructure that powers the world's medical AI.

ModAstera

Contact

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Book a free consultation