



I advise medical imaging AI teams on defensible technical decision-making, from early problem framing to R&D validation.

My goal is to ensure that technical choices, data constraints, and evaluation strategies remain aligned with real-world clinical, operational, and regulatory requirements, leading to robust outcomes.



Technical Framing & Feasibility

Clarifying problem formulation, objectives & constraints before key decisions are locked in.



Data Due Diligence

Identifying structural risks in datasets – provenance, labeling, leakage, class balance – that may affect development, validation, or deployment.



Experiment & Evaluation Strategy

Structuring experiments & evaluation protocols to ensure results are interpretable, comparable & aligned with real-world use.



Literature Review & Analysis

Reviewing, selecting & justifying feasible & scalable methods aligned with project constraints & strategic objectives.



Technical Documentation

Documenting technical work for traceability and defensibility over time, including for regulatory and audit requirements.



Expert Session

Diving into specific technical issues you are facing – answering questions or reviewing targeted documents.



How I engage

Engagements are scoped to project needs, designed to adapt to project maturity and internal R&D structures. I offer two primary modes of collaboration:

1. **Ongoing R&D Advisory** A continuous strategic partnership (retainer-based) to ensure technical integrity, robust validation, and long-term defensibility of your projects.
2. **Focused Technical Interventions** For specific, punctual needs, I provide high-impact formats to unblock R&D stages or secure critical milestones.
3. **AI Leadership Roles** For teams that need senior technical direction, I lead their technical strategy directly (Head of AI / CSO).

What This Enables

- Clearer technical positioning
- Reduced hidden downstream risk
- Stronger evaluation rigor
- Defensible performance claims
- Continuity of judgment over time

Case Study

Applying the VeraDP Data Due Diligence Protocol, evaluation design and technical strategy to a widely used public dataset – surfacing risks most evaluations miss.

→ Full evaluation at <https://veradp-ai.com/advisory/case-studies/>

About Vera Damerjian Pieters, PhD

PhD in Computer Vision

10+ years in applied MedTech R&D

Experience at the intersection of research design, data constraints, and real-world implementation

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