

Teaching Portfolio

Vera Damerjian Pieters

AI • Responsible AI • Medical Imaging

Vera Damerjian Pieters, PhD is an AI and computer vision specialist with extensive experience in medical imaging R&D. She is the founder of [VeraDP](#), where her work combines research and technical advisory, with a focus on data understanding and qualification, methodological rigor, and the reliability of AI systems.

With over a decade of teaching experience across higher education and professional training, she teaches artificial intelligence, computer vision, and responsible AI, combining technical foundations with applied perspectives.

Teaching Topics

General Courses	
Introduction to Artificial Intelligence ▸ Neural networks & deep learning ▸ Computer vision ▸ Transformers and generative AI	Computer Vision ▸ Image processing foundations ▸ Deep Learning for Computer Vision ▸ Advanced architectures ▸ Performance evaluation
Specialized Courses	
Responsible AI in practice ▸ Data structuring ▸ Algorithm & pipeline choices ▸ Evaluation design & performance limits ▸ Robustness of AI systems in real-world settings	AI for Medical Imaging ▸ Data assessment & preparation ▸ Annotation & label structuring ▸ Model development ▸ Model evaluation & validation

Selected Teaching Experience

Over a decade of teaching spanning computer science and programming fundamentals, artificial intelligence, deep learning, computer vision, and responsible AI.

Selected institutions & training organizations:

Université Paris Descartes · Université Paris Sud / Polytech Paris-Sud · ESME · DSTI · Junia · Simplon

Pedagogical Approach

Courses combine theoretical foundations with practical applications and real-world AI use cases. Concepts are progressively applied through Python development, data analysis, exercises, and project-based learning.

Teaching languages: French and English

Audience

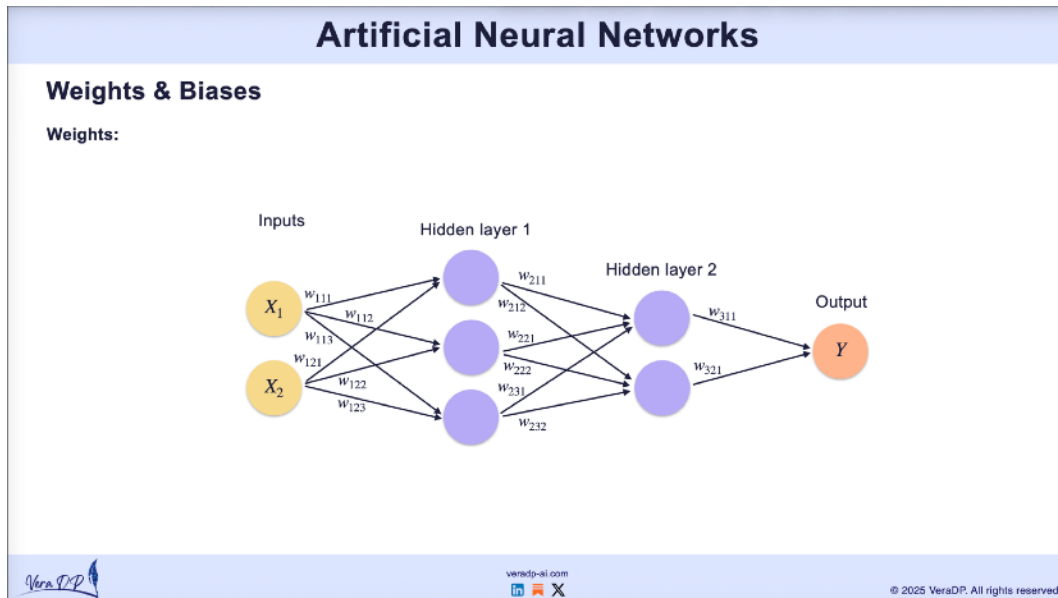
- Engineering schools
 - Universities & Data science programs
 - Professional & executive education
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Teaching Formats

- Lecture or seminar: 1.5–3 hours
- Technical workshop: half-day / full-day
- Academic course: 12–30+ hours
- Personalized program: combination of selected topics or modules

Examples of Teaching Materials

Introduction to AI:



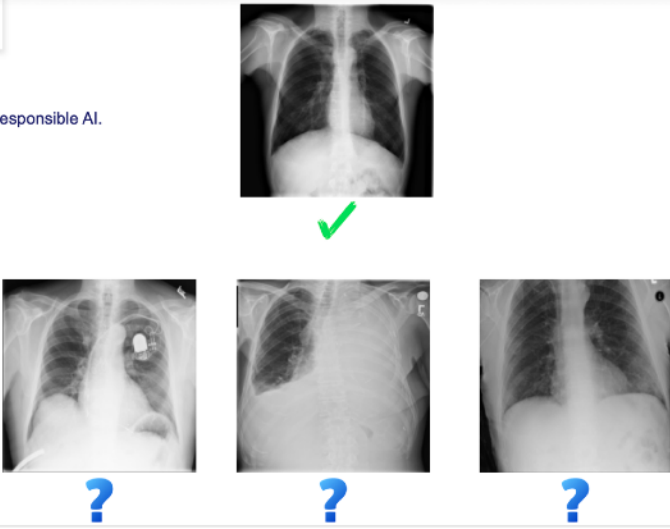
Responsible AI in Practice:

Part 1 - Data & Information Architecture

The Hidden Clinical Claims

✦ Data readiness is the first step towards responsible AI.

➡ What qualifies as a valid sample?



Source: <https://www.kaggle.com/datasets/h1h1h1/ai-medical-data>
Artifacts and crops highlighted for pedagogical purposes.

veradp-ai.com

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Contact



veradp-ai.com



contact@veradp-ai.com



linkedin.com/in/vera-damerjian-pieters-phd