Teaching Portfolio

Vera Damerjian Pieters

AI • Responsible AI • Medical Imaging

Vera Damerjian Pieters is a computer vision specialist working on medical imaging AI and develops a technical advisory activity focused on methodological rigor and reliability of AI systems.

She teaches in higher education and professional training programs on the foundations of artificial intelligence and responsible AI in applied systems.
She has been teaching alongside her main professional activity since 2017.

Teaching Topics

Introduction to Artificial Intelligence

‣ Neural networks and deep learning

‣ Computer vision

‣ Transformers and generative AI

Responsible AI in practice

‣ Data structuring

‣ Algorithm and pipeline choices

‣ Evaluation and performance limits

‣ Robustness of AI systems in real-world settings

AI for Medical Imaging

‣ Data preparation

‣ Annotation and label structuring

‣ Model evaluation and validation

Recent Teaching Experience

Course	Institution	Level	Hours
Introduction to Artificial Intelligence	Junia	Graduate	28h
Introduction to Artificial Intelligence	École de Turing / La Horde	Undergraduate / Graduate	12–36h
Responsible AI	Junia	Graduate	14h
Artificial Neural Networks	DSTI	Graduate	25h (×3)
Responsible AI through Data, Evaluation & Applied Systems	VeraDP	Masterclass	3h

Pedagogical Approach

Courses rely on real situations encountered in AI projects and aim to connect technical principles with real-world deployment constraints.

Concepts are introduced through their theoretical foundations and then applied to practical cases, with Python development and data analysis.

Teaching languages: French and English

Audience:

‣ Engineering schools
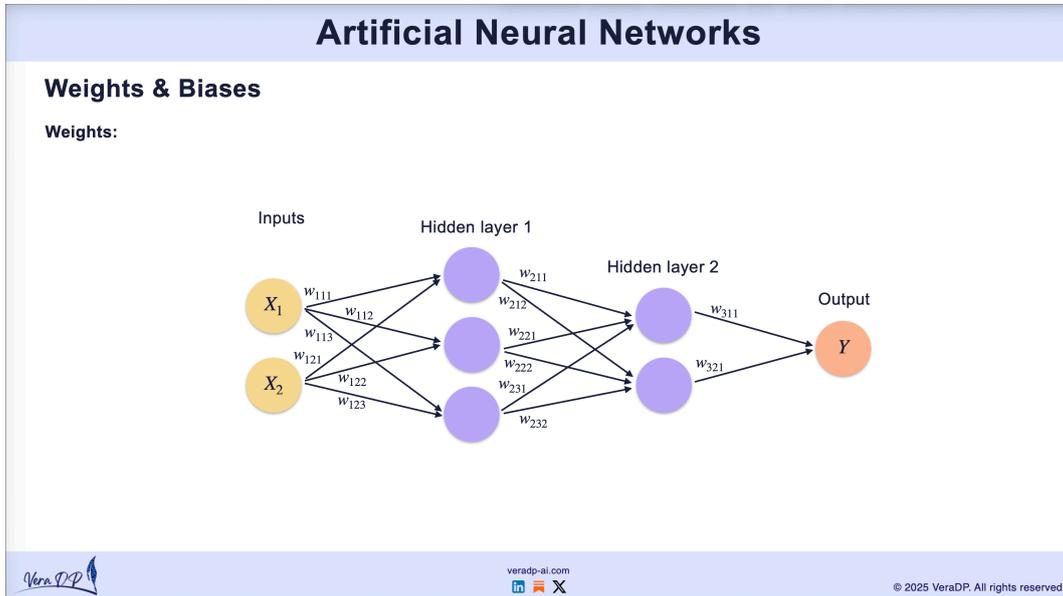
‣ Data science programs

‣ Executive training

Teaching Formats

‣ Lecture or seminar: 2–3 hours

‣ Intensive workshop: 1 day

‣ Academic module: 12–30 hours

Examples of Teaching Materials

Introduction to AI:

Artificial Neural Networks

Weights & Biases

Weights:

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?

Contact

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