

AI: Evolution, Understanding, Application, and Programming

Module 1: Introduction to Artificial Intelligence

- Overview and Q&A session (1h30)
- Definition and evolution of AI:
 - Terminology and evolution
 - From early algorithms to neural networks
 - Deep Learning and Generative AI
 - Weak, General, and Superintelligent AI
 - Examples of applications across sectors
- Factors supporting AI:
 - Algorithmic and heuristic structures
 - Hardware aspects (CPU, GPU, TPU)
 - Languages (R, Python, C++, Rust, Mojo)
 - Software and frameworks
- Introduction to Machine Learning:
 - Main model categories
 - Supervised and unsupervised learning
 - Applications and use cases
- Introduction to Deep Learning:
 - Differences from Machine Learning
 - Concepts and models
 - Applications and use cases
- Natural Language Processing features
- Overview of Generative AI:
 - Language, image, and multimodal models
 - Market applications and products
 - Example: Google Gemini
- Issues and risks:
 - Ethics and bias
 - Privacy and environmental impact
 - Risk of dystopian outcomes

Module 2: AI Demonstration

- Overview and Q&A session (1h30)
- DevOps and AI pipelines:
 - Data preprocessing
 - Training and optimization
 - Deployment
- Machine Learning in practice:
 - Demo with Scikit-Learn
 - User-friendly approach with PyCaret

- Note: Source code via Google Colab
- Deep Learning in practice:
 - Demo with Numpy
 - Using PyTorch
 - Note: Source code via Google Colab
- Generative AI:
 - Exploring large language and multimodal models
 - Fine-tuning and autonomous agents
 - Note: Hands-on in the next module with Google Gemini

Module 3: Using Google Gemini

- Hands-on experimentation with Google Colab (3h30)
- Using the chatbox:
 - Crafting simple prompts
 - Tips for Python and other technical prompts
- Using the Python API:
 - Designing advanced prompts
 - Code optimization and unit testing
- Using Gemini Studio:
 - Fine-tuning and Retrieval-Augmented Generation
 - Building an autonomous agent
 - Experimental projects with Python and more

Follow-up training with OpenAI

[OpenAI Training for Developers](#)

About

Founded in 2016

97% satisfaction



Doussou Formation – Canadian provider of market-ready IT training

Founded in 2016, **Doussou Formation** quickly established itself as a leader in training for information technology, office productivity, human capital, project management, and graphic design, in Quebec and across Canada.

Our approach & quality commitment

- **Certifications and recognition:** over 97% satisfaction based on client evaluations.
- **Practice-based pedagogy:** 100% hands-on training, in small groups, with course materials, personalized follow-up, and certification at the end of the program.
- **Experienced trainers:** seasoned professionals, rigorously selected and assigned according to your needs.

Geographic reach & accessibility

Our training sessions are offered in person in **Montreal, Quebec City, and Gatineau/Ottawa**, as well as in **virtual classrooms** accessible anywhere in Canada.

We serve **businesses, public organizations, NPOs, and individuals** with a standardized “market-available” offering, compliant with procurement requirements (no custom development).

[Montreal](#)

[Quebec City](#)

[Gatineau / Ottawa](#)

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Training domains & topics

More than **100 ready-to-start courses** – organized by major **topics** to quickly meet your needs.

Productivity & Office Tools

Data & Analytics

Development & DevOps

Collaboration & M365

Design, Graphics & Multimedia

Leadership & Human Capital

Project Management

Digital Marketing & SEO

Emerging Technologies & AI

Productivity & Office Tools

- **Spreadsheets & automation** – Excel (pivot tables, Power Pivot), Google Sheets
- **Documents & layout** – Advanced Word, templates, mail merge
- **Communication** – Outlook, email best practices

Data & Analytics

- **BI & visualization** – Power BI (Modeling, DAX), Tableau
- **Databases** – SQL (queries, optimization)
- **Data science** – Python for analysis

Collaboration & M365

- **Teams & team productivity** – meetings, channels, best practices
- **SharePoint & OneDrive** – structures, permissions, governance
- **Copilot & applied AI** – responsible use and quick wins

Design, Graphics & Multimedia

- **Adobe Suite** – Photoshop, InDesign, Illustrator
- **UX/UI & prototyping** – Figma, mockups and components
- **Animation & content** – basics of 2D/3D, visual storytelling

Leadership & Human Capital

- **Management** – leadership, two-way feedback
- **Effectiveness** – time & priority management
- **Work climate** – managing difficult employees

Project Management

- **Methods & tools** – planning, monitoring, risk management
- **Microsoft Project** – calendars, resources, reports
- **Agile/Hybrid** – practical team practices

Digital Marketing & SEO

- **SEO** – technical, content, linking, monitoring
- **Acquisition** – Google Ads, social media
- **Content** – editorial guidelines, conversion pages

Emerging Technologies & AI

- **Generative AI** – ChatGPT, Copilot, best practices
- **Systems & dev** – Linux, JavaScript, React, DevOps
- **Automation** – scripts, integrations, workflows

*Indicative lists: each topic is available at **beginner**, **intermediate**, and **advanced** levels, in person or in virtual classrooms.*

Our clients & references

- **Governments:** federal, provincial, municipal.
- **Public institutions:** CNESST, SAAQ, BAnQ...

- **Education & NPOs:** universities, colleges, community organizations.
- **Private sectors:** Hydro-Québec, Vidéotron, Bell, Desjardins...
- **International presence:** France, DRC, Guadeloupe, Mali.

Why choose Doussou Formation?

Strength	Description
Pan-Canadian reach	In-person in Quebec + virtual across Canada.
Standardized offering	Clear, ready-to-use catalog.
Small groups & support	Better learning through personalized guidance.
Bilingual accessibility	Materials and training in French and English.
Transparent pricing	Public rates, discounts under conditions (F01).
Proven credibility	Expert trainers, recognized clients.

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They trust us

Many companies, institutions, and organizations place their trust in us and continue to attend our training.

Here are some examples:

Sector	Organizations
Financial services, real estate and insurance	Desjardins, National Bank of Canada, Intact, Olympus, Global Pay
Leisure, culture and hospitality	Caraïbes Nordiques, Tangente Danse, PPS Danse, Théâtre de la Dame de Cœur, Le Carrousel, Productions Roméo et Fils, Tidan
Federal government agencies	Government of Canada, RCMP, Department of Fisheries and Oceans, National Defence
Provincial government agencies	Ministry of Families, Ministry of the Environment, MSSS (Ministry of Health and Social Services), CNESST, Québec Research Fund, SAAQ, Public Curator, BANQ (National Library and Archives of Québec), Tourisme Québec, UPAC
Municipalities	City of Montréal, Municipality of Sayabec
Education services	Laval University, Université de Montréal, Cégep de Trois-Rivières, Royal Military College Saint-Jean, University of Ottawa, CPE de la Courtepointe

Sector	Organizations
Technology & communications	Captel, Blue Solutions, Progi, PMG Technologies, Hydro-Québec, Vidéotron, Bell Canada, TC Transcontinental, GRICS
Non-profit organizations	Résidence Le Monarque, Réseau-Femmes Ontario, Sphère Québec, Alzheimer Outaouais, Valoris, Culture Laval, Québec Logistics Innovation Institute
Social & public services	Urgences-Santé, IDDPNQL, CSS des Patriotes (School Service Centre), SIS Immigration, RDÉE Canada, Société Économique de l'Ontario
Associations & professional orders	Ordre de la Physiothérapie du Québec, Professions Québec, CPA Québec, Public Service Alliance, Association des cadres des CPE
Construction & manufacturing	ENERGI Fenestration, APL Construction, Canatal, MSP, Veolia, Acti Solutions, Photon, Les Bois de Plancher PG, KID Toy
Transport & logistics	Groupe Morneau, Communauto, STO Outaouais (Public Transit Service)
Agriculture & food	F. Ménard
Retail & e-commerce	Jackfield, Safran
Cosmetics & wellness	Institut de Beauté Manon Simard
International	RATP (France), IMIE (France), Davidson Paris, Koala Web (Guadeloupe), Malitel (Mali), AAC/RDC (Congo)

