ENTERPRISE BIG DATA FRAMEWORK

AI PROFESSIONAL

3-day course

MASTERING AI FOR ENTERPRISE STRATEGY & IMPLEMENTATION

As Artificial Intelligence becomes central to enterprise strategy, professionals need more than awareness — they need depth. The AI Professional (AIPR®) course, part of the DASCIN® Enterprise Big Data Framework, delivers comprehensive, in-depth knowledge of AI concepts, algorithms, and enterprise applications, equipping candidates to evaluate, govern, and drive responsible AI adoption.

This course provides a structured journey from the philosophical and theoretical origins of AI through to its modern enterprise applications. Candidates build a working understanding of intelligent agents, uninformed and informed search (BFS, DFS, A*), reinforcement learning (Q-Learning, SARSA, Deep RL), neural network architectures (CNNs, RNNs, LSTMs, Transformers), and large language models including prompting strategies and fine-tuning with LoRA with each concept reinforced through guided Python lab walkthroughs that show these techniques in action.

Designed for business and technology leaders, AI project contributors, data and IT professionals, and policy, risk, and compliance officers, the AIPR® course balances conceptual understanding with hands-on lab demonstrations, enterprise case studies, and worked examples, equipping candidates to participate meaningfully in AI-related initiatives and support ethical AI governance. No prior coding experience is required to complete the course, though candidates comfortable reading code will get additional value from the practical lab sessions.

SYLLABUS SCOPE

The AI Professional course spans six modules covering the full AI stack: Introduction to AI and the PEAS framework, Search Problems, Reinforcement Learning, Neural Networks, Large Language Models, and AI for the Enterprise. Each module pairs conceptual learning with a guided Python lab walkthrough from A* search on a grid to fine-tuning a small LLM with LoRA and building an AI Opportunity ROI calculator. The course also addresses enterprise readiness: the four-level AI value chain, data strategy and architecture patterns, human-in-the-loop system design, organisational readiness, and responsible AI principles including EU AI Act risk classification, preparing candidates to evaluate AI potential and champion its strategic, responsible adoption.

EXAM DETAILS

PASSING MARK	FORMAT
26 OUT OF 40	MULTIPLE CHOICE



FORMAT

Instructor-Led Training (Live or Virtual) | Self-Paced Online Training

KEY FEATURES

1. **End-to-End AI Curriculum** – From rational agents and classical search through reinforcement learning, neural networks, and large language models.
2. **Enterprise-Focused Content** – Covers AI's transformative role across business strategy, governance, and enterprise architecture.
3. **Hands-On Python Labs** – Six practical exercises reinforcing theory, from A* search to fine-tuning an LLM with LoRA and building an AI ROI calculator.
4. **Responsible & Ethical AI** – Focuses on fairness, transparency, accountability, and EU AI Act risk classification tiers.
5. **Globally Recognized Accreditation** – Certified by APMG International, ensuring worldwide credibility.
6. **Vendor-Neutral Approach** – Focuses on AI principles and methodologies rather than proprietary tools or platforms.
7. **Career and Professional Growth** – Prepares candidates for leadership roles in AI-driven enterprises.

DASCIN®



70%

AI-related job postings have increased by over 70% year-over-year, highlighting strong employer demand.

JOB DEMAND

The demand for AI skills continues to rise across industries, as highlighted by recent studies:

- **World Economic Forum – Future of Jobs Report 2025:** AI and machine learning specialists are named among the fastest-growing job categories worldwide. The report projects 170 million new roles created and 92 million displaced by 2030 (a net gain of 78 million), with two-thirds of employers planning to hire talent with specific AI skills by 2030.
- **LinkedIn – Jobs on the Rise 2026:** AI Engineer ranks as the #1 fastest-growing role in the U.S., with postings up 143% year-over-year. Four of the top five fastest-growing jobs overall are AI-related AI engineers, AI consultants and strategists, data annotators, and AI/ML researchers. LinkedIn's Economic Graph reports AI has added 1.3 million new roles and over 600,000 AI-enabled data centre jobs in the past three years.
- **McKinsey & Company – The State of AI in 2025:** 88% of organizations now report using AI in at least one business function, up from 78% a year earlier though only about a third have begun scaling AI enterprise-wide. Demand for AI-related skills continues to climb, with large companies twice as likely to hire data engineers, machine learning engineers, and MLOps talent the gap this course is designed to close.
- **PwC – Global AI Jobs Barometer 2026:** The wage premium for AI-related skills has risen to 62%, up from 57% the year before, and productivity growth is 40% higher at companies most exposed to AI than those least exposed evidence that AI fluency is increasingly rewarded, not just required.

TARGET AUDIENCE

The AI Professional course is designed for those seeking a structured, in-depth understanding of AI's technologies, algorithms, and enterprise relevance, bridging the gap between AI awareness and practical implementation. This course is ideal for:

- **Business and Technology Leaders** – CIOs, CTOs, digital transformation leads, and innovation strategists who need to evaluate, govern, and integrate AI solutions aligned with business priorities and organizational strategy.
- **AI Project Contributors** – Project managers, product owners, and business analysts involved in AI initiatives who must understand AI architectures, decision-making frameworks, and risk considerations.
- **Data and IT Professionals** – Data engineers, system architects, and IT specialists seeking to expand their understanding of AI systems, machine learning models, and responsible AI deployment, including the ability to read and interpret working code examples used throughout the course.
- **Policy, Risk, and Compliance Officers** – Professionals responsible for creating, assessing, or enforcing AI-related governance, ethics, and compliance frameworks in both public and private organizations.
- **Educators, Researchers, and Lifelong Learners** – Academics, trainers, and students who wish to gain a comprehensive and applied understanding of AI techniques and their implications across industries.

FREQUENTLY ASKED QUESTIONS

Q: What does the AI Professional (AIPR®) course cover that a general AI overview wouldn't?
A: AI Professional goes beyond terminology and awareness it covers the algorithms and architectures themselves, including search strategies (BFS, DFS, A*), reinforcement learning, neural network design, and large language models, each reinforced through hands-on Python lab exercises.

Q: What are the benefits of earning the AIPR® certification?
A: The AIPR® certification demonstrates in-depth, working knowledge of AI algorithms, architectures, and enterprise applications valuable for leading AI initiatives, bridging technical and business teams, and taking on AI governance and strategy responsibilities.

Q: Can I take this course if I do not have a technical background?
A: Yes. The course requires no prior programming or data science experience. It is designed to be accessible to both technical and non-technical professionals, providing a structured path into AI's core concepts and enterprise applications.

Q: How long is the certification valid?
A: The AIPR® certification is valid for a lifetime, with no renewal requirements.

Q: How will this certification benefit my career?
A: AI literacy at a deeper, algorithmic level is increasingly valued across industries. This certification strengthens your ability to evaluate AI systems, contribute meaningfully to AI project design and governance, and pursue leadership roles in AI-driven enterprises. It also serves as a foundation for advanced specialisation in Machine Learning, AI Governance, and Data Science.

Q: Do I need a programming background to enrol?
A: No formal prerequisites are required to enrol or sit the exam, which focuses on conceptual understanding. The course does include Python-based lab exercises to reinforce the theory some prior exposure to coding is helpful here, though not mandatory for certification.



TARGET INDUSTRY

Artificial Intelligence is transforming every sector. As a result, the AI Professional (AIPR®) certification is relevant for professionals across industries who need to go beyond awareness and understand how AI algorithms and architectures drive strategy, operations, and innovation.

- **Business & Corporate Strategy** – Business leaders and managers who want to understand how AI supports data-driven decision-making, intelligent automation, and competitive advantage.
- **Technology & IT Services** – IT professionals, developers, engineers, and data practitioners seeking to implement and manage AI solutions using techniques such as search algorithms, reinforcement learning, neural networks, and large language models.
- **Financial Services & Healthcare** – Analysts, clinicians, and risk professionals applying AI to fraud detection, algorithmic trading, credit risk modelling, medical imaging, and treatment optimization two of the fastest-growing sources of AI-related hiring today.
- **Education & Research** – Educators, students, and researchers who want a deeper, working understanding of AI concepts, problem-solving techniques, and emerging AI technologies to support learning and innovation.
- **Government & Public Policy** – Public sector leaders, regulators, and policymakers responsible for evaluating AI adoption, governance frameworks, regulatory compliance, and responsible AI practices.
- Across these sectors, the AI Professional certification helps practitioners develop the in-depth knowledge required to understand, evaluate, and apply AI technologies responsibly in their organizations.

CONCLUSION

The AI Professional (AIPR®) course provides a comprehensive and in-depth understanding of AI concepts, algorithms, and enterprise applications. It connects theoretical foundations with guided Python lab walkthroughs, demonstrating how AI methods such as search algorithms, reinforcement learning, neural networks, and LLMs work in practice.

The course also equips learners to evaluate AI solutions, understand their limitations, and apply responsible AI principles including data strategy, governance, and EU AI Act risk classification in enterprise environments. Whether for business strategy, digital transformation, or innovation, participants gain the skills to improve decision-making and drive strategic AI adoption.

By earning the AIPR® certification, learners demonstrate their ability to lead AI-driven initiatives and collaborate across technical and business teams. With its vendor-neutral and globally recognized approach, the certification supports long-term professional growth and prepares participants for leadership roles in AI-driven enterprises.



CONTACT & MORE INFORMATION

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