



ARTIFICIAL INTELLIGENCE: ADVANCED



23 – 27 SEPTEMBER 2026



ACCOMODATION PROVIDED



DE PALMA HOTEL SHAH ALAM

PROGRAMME FEE

RM4,200

OVERVIEW

The Artificial Intelligence (Advanced Level) program is a 5-day intensive, hands-on training designed for participants who have completed foundational and intermediate AI courses or possess equivalent experience in machine learning and data analytics. This program focuses on mastering advanced AI techniques, optimization strategies, and the deployment of scalable, production-ready AI solutions. Through in-depth exploration of Deep Learning, Natural Language Processing (NLP), Reinforcement Learning (RL), and Generative AI, participants will gain the technical expertise required to design, train, and optimize complex AI systems. The course also integrates MLOps, Explainable AI (XAI), and Ethical AI Governance, enabling learners to not only build high-performing models but also ensure transparency, fairness, and compliance in their AI solutions. Participants will engage in practical labs, case studies, and a capstone project that simulates a real-world AI deployment scenario — from model development to application integration. By the end of the program, participants will be equipped to lead advanced AI initiatives, implement end-to-end automation pipelines, and innovate responsibly in fast-evolving digital ecosystems

KEY LEARNING OUTCOMES

- **Master Advanced AI & Deep Learning Architectures**
Design, train, and optimize state-of-the-art neural networks using TensorFlow, Keras, and PyTorch for complex, real-world applications.
- **Build Intelligent NLP, Generative & Reinforcement AI Systems**
Develop transformer-based NLP models (BERT, GPT, T5), Generative AI solutions (GANs, VAEs), and Reinforcement Learning agents for decision-making and creative automation.
- **Optimize, Fine-Tune & Scale AI Models Efficiently**
Apply hyperparameter optimization, transfer learning, model compression, and edge optimization techniques to maximize performance and efficiency.
- **Deploy Enterprise-Grade AI Solutions End-to-End**
Implement MLOps pipelines, deploy AI via APIs and web platforms, and leverage cloud services (AWS, Azure, GCP) for scalable production-ready solutions.
- **Deliver Responsible, Explainable & Business-Ready AI**
Integrate Explainable AI (XAI), ethical AI principles, and multi-modal intelligence to ensure transparency, fairness, and enterprise impact.



METHOD

Presentations, hands-on labs, real-world case studies, project-based learning, discussions and Q&A sessions



FOR WHOM

Data analysts, developers, engineers, digital transformation teams, and professionals with basic AI knowledge looking to apply AI in real-world projects



COURSE OUTLINES

DAY 1: ADVANCED NEURAL NETWORKS AND DEEP LEARNING OPTIMISATION

Module 1: Deep Neural Network (DNN) Architecture

Module 2: Hyperparameter Tuning and Model Optimisation

Module 3: Transfer Learning and Model Fine-tuning

DAY 2: NATURAL LANGUAGE AND SEQUENCE MODELING (ADVANCED NLP)

Module 4: Transformer Architecture Deep Dive

Module 5: Advanced NLP Applications

Module 6: Multilingual and Contextual AI Models

DAY 3: REINFORCEMENT LEARNING AND GENERATIVE AI

Module 7: Reinforcement Learning (RL) Fundamentals

Module 8: Deep Reinforcement Learning (DRL)

Module 9: Generative AI – Advanced Models

DAY 4: MLOPS, MODEL DEPLOYMENT, AND EXPLAINABLE AI

Module 10: MLOps Pipeline and Automation

Module 11: Model Deployment and Serving

Module 12: Explainable AI (XAI) and Model Interpretability

DAY 5: AI INTEGRATION, INNOVATION, AND CAPSTONE PROJECT

Module 13: Multi-Modal AI and Emerging Technologies

Module 14: AI for Innovation and Enterprise Applications

Module 15: Capstone Project Presentation

Who Can Apply?

To enroll in this programme, you must meet the following requirements:

Eligibility

- ✓ Malaysian Bumiputera.
- ✓ Diploma holder & above.
- ✓ Open to students, fresh graduates, working professionals, and career switchers.
- ✓ Alumni of Yayasan Peneraju are welcome to apply.

Prerequisites

- ✓ Recommended for participants with solid foundational
- ✓ Intermediate AI knowledge
- ✓ Experience in Python
- ✓ Familiarity with machine learning tools.

Check Your AI Level Proficiency

Scan the QR code to complete a short AI Level Check. This helps us understand your current proficiency and recommend the most suitable programme level.

After submission, our team will reach out to confirm details and guide you on the next steps and financing options.

SCAN TO
SUBMIT INTEREST



TRAINER PROFILE

MUHAMMAD AQIL LUQMAN
Data Science & Industry 4.0 trainer specialising in programming, analytics, and problem-solving. Delivers hands-on sessions that help participants apply data-driven solutions with confidence.



KHAVINDIRREN NALARAJAH
Industry 4.0 trainer with 7+ years' experience in Big Data, Data Science, IoT, AI, and analytics. Experienced in practical delivery using Excel, Power BI, and Tableau.



MUHILAN NALARAJAH
Big Data & Industry 4.0 trainer with 8 years' experience in Python, Java, Hadoop/Spark, and SQL. Delivers tool-based analytics and visualisation training using Power BI, Tableau, and Excel.



ZAIFEEDA ZADA BINTI AMIR ZADAH
Industry 4.0 trainer with 6 years' experience in training operations and capability development. Focus areas include soft skills, strategic thinking, marketing management, and project management.



Questions &
Queries met with
Quality Solutions

Contact Information



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