

AI FUNDAMENTALS COURSE

COURSE INFO
[2-5 DAYS/10 HOURS]

- AI Principals, Concepts & Potential Uses
- Essential Software & Algorithms for AI Applications & Possibilities
- AI Associated Risks & Ethical Requirements



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ABOUT

AI focuses on building smart machines capable of performing tasks that typically require humans and is drastically increasing in demand as it continues to change the future of virtually every field of technology. With AI Fundamentals, you'll learn how understanding AI's risks and potential can fast-track your career.

2x Internationally award-winning



PRICE: R10 900 / \$900 / €800/ £800

Full Payment before commencement (no payment plan)

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MICROSOFT AI FUNDAMENTALS COURSE

COURSE INFO

[5 - 30 DAYS / 20 HOURS]

- **Describe** AI workloads and considerations.
- **Get** started with AI on Azure
- **Create** no-code predictive models with Azure Machine Learning.
- **Use** automated machine learning in Azure Machine Learning.
- **Create** a Regression Model with Azure Machine Learning designer.
- **Create** a classification model with Azure Machine Learning designer.
- **Create** a Clustering Model with Azure Machine Learning designer.
- **Explore** computer vision in Microsoft Azure.
- **Analyze** images with the Computer Vision service.
- **Classify** images with the Custom Vision service.
- **Detect** objects in images with the Custom Vision service.
- **Detect** and analyze faces with the Face service.
- **Read** text with the Computer Vision service.
- **Analyze** receipts with the Form Recognizer service.
- **Explore** natural language processing.
- **Analyze** text with the Text Analytics service.
- **Recognize** and synthesize speech.
- **Translate** text and speech.
- **Create** a language model with Language Understanding.
- **Explore** conversational AI.
- **Build** a bot with QnA Maker and Azure Bot Service.



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AWS AI PRACTITIONER COURSE

COURSE INFO

[2-5 DAYS/10 HOURS]

- Developing or coding AI/ML models or algorithms
- Implementing data engineering or feature engineering techniques
- Performing hyperparameter tuning or model optimization
- Building and deploying AI/ML pipelines or infrastructure
- Conducting mathematical or statistical analysis of AI/ML models
- Implementing security or compliance protocols for AI/ML systems
- Developing and implementing governance frameworks and policies for AI/ML solutions



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MICROSOFT AI ENGINEER ASSOCIATE COURSE

ABOUT

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COURSE INFO [2 MONTHS / 40 HOURS]

- Developing or coding AI/ML models or algorithms
- Implementing data engineering or feature engineering techniques
- Performing hyperparameter tuning or model optimization
- Building and deploying AI/ML pipelines or infrastructure
- Conducting mathematical or statistical analysis of AI/ML models
- Implementing security or compliance protocols for AI/ML systems
- Developing and implementing governance frameworks and policies for AI/ML solutions



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PRICE: R28 800 / \$1800 / €1600 / £1500

Payment plan: [R14 400 per 20 hours]: 2 payments

Prerequisite: Azure AI Fundamentals course

AWS MACHINE LEARNING ENGINEER ASSOCIATE COURSE

COURSE INFO
[5 - 30 DAYS/20 HOURS]

- Ingest, transform, validate, and prepare data for ML modeling.
- Select general modeling approaches, train models, tune hyperparameters, analyze model performance, and manage model versions.
- Choose deployment infrastructure and endpoints, provision compute resources, and configure auto scaling based on requirements.
- Set up continuous integration and continuous delivery (CI/CD) pipelines to automate orchestration of ML workflows.
- Monitor models, data, and infrastructure to detect issues.
- Secure ML systems and resources through access controls, compliance features, and best practices.



+1 International exams
- additional in price:

ABOUT

Machine Learning Engineer - Associate validates technical ability in implementing ML workloads in production and operationalizing them. Boost your career profile and credibility, and position yourself for in-demand machine learning job roles.

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PRICE: R16 900 / \$1100 / €1000/ £900
Full Payment before commencement (no payment plan)

Prerequisite: AWS AI Practitioner course

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AI PROMPT COURSE

COURSE INFO

[5 - 30 DAYS/20 HOURS]

- Introduction to Prompt Engineering
- The importance of effective prompts
- The role of prompts in AI communication
- The Basics of ChatGPT
- Understanding ChatGPT's capabilities
- Limitations and considerations
- Best practices for interacting with ChatGPT
- Designing Effective Prompts
- Components of a good prompt
- Techniques for prompt refinement
- Crafting prompts for specific outcomes

- Crafting prompts for different scenarios
- Analyzing responses and iterating
- Role-playing with ChatGPT
- Advanced Prompt Engineering
- Contextual and recursive prompts
- Domain-specific prompt design
- Managing ambiguity in prompts
- Best Practices in Prompt Engineering
- Establishing clear objectives
- Balancing detail and flexibility
- Continuous learning and adaptation
- Ethical Considerations
- Bias and fairness in AI
- Ethical prompt design
- The impact of prompts on AI behavior

- Developing a prompt strategy
- Real-world application and testing
- Presenting and reviewing prompt strategies

PRICE: R16 900 / \$1100 / €1000/ £900

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ABOUT

IA prompts. The IA prompts are a set of 35 high-level knowledge questions. Students must select one of the following IA prompts on which to base their exhibition, and all three objects must be linked to the same prompt.

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AWS [5-10days/20 hours] MACHINE LEARNING COURSE



- **Choose** and justify the appropriate ML approach for a given organization problem.
- **Identify** appropriate AWS services to implement ML solutions.
- **Design** and implement scalable, cost-optimized, reliable, and secure ML solutions.

PRICE: R18 900 / \$1100 / €1000/ £900

Full Payment before commencement (no payment plan)

+1 International exams - AWS Certified Machine Learning - Specialty (additional in price)



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PROFESSIONAL LEVEL

PREREQUISITE OPTION 1:

aws solutions architect associate



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AI [5-10days/20 hours] PROGRAMMING WITH PYTHON COURSE



- **Introduction** to Python.
- **Learn** how to use all the key tools for working with data in Python: Jupyter Notebooks, NumPy, Anaconda, pandas, and Matplotlib.
- **Learn** the foundational linear algebra you need for AI success: vectors, linear transformations, and matrices.
- **Learn** the foundations of calculus to understand how to train a neural network: plotting, derivatives, the chain rule, and more. See how these mathematical skills visually come to life with a neural network example.
- **Gain** a solid foundation in the hottest fields in AI: neural networks, deep learning, and PyTorch.



PRICE: R18 900 / \$1100 / €1000/ £900

Full Payment before commencement (no payment plan)

+2 International exams - AI fundamentals & PCAP in
Python fundamentals (additional in price)



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MACHINE LEARNING WITH PYTHON COURSE

[5-10days/20 hours]

- **Gain** an Introduction to Python.
- **Introduction** to Machine Learning.
- **Learn** Linear, Non-linear, Simple and Multiple regression, and their applications. Thus Learn algorithms, such as KNN, Decision Trees, Logistic Regression and SVM.
- **Learn** how to use clustering for customer segmentation, grouping same vehicles, and also clustering of weather stations. You understand 3 main types of clustering, including Partitioned-based Clustering, Hierarchical Clustering, and Density-based Clustering.



PRICE: R18 900 / \$1100 / €1000/ £900

Full Payment before commencement (no payment plan)

+2 International exams - (additional in price)



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MACHINE LEARNING WITH JAVASCRIPT COURSE [5-10days/20 hours]



- Assemble machine learning algorithms from scratch.
- Learn TensorFlowJS.
- Create Applications of Tensorflow.
- Learn Gradient Descent.
- Plotting data with JavaScript.
- Natural Binary Classification.
- Optimize your algorithms with advanced performance and memory usage profiling.
- ML best practices.



PRICE: R18 900 / \$1100 / €1000/ £900

Full Payment before commencement

+2 International exams - (additional in price)



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MACHINE LEARNING WITH R COURSE

[5-10days/20 hours]



- **Assemble** machine learning algorithms from scratch.
- **Learn** Built-in Datasets of R.
- **Create** UC Irvine Machine Learning Repository.
- **Learn** KNN Model.
- **Machine** Learning in R with caret.
- **ML** best practices.



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