Masters in Artificial Intelligence Course

About DevOpsSchool

DevOpsSchool is a unit of "Cotocus PVT ltd" and a leading platform which helps IT organizations and professionals to learn all the emerging technologies and trend which helps them to learn and embrace all the skills, intelligence, innovation and transformation which requires to achieve the end result, quickly and efficiently. We provide over 40 specialized programs on DevOps, Cloud, Containers, Security, AI, ML and on Big data that are focused on industry requirement and each curriculum is developed and delivered by leading experts in each domain and aligned with the industry standards.

About Course

This is an Artificial Intelligence training program that is a comprehensive learning approach for mastering the domains of Artificial Intelligence, Data Science, Business Analytics, Business Intelligence, Python coding and Deep Learning. This training program enables you to take on challenging roles in the Artificial Intelligence domain.

The AI courses will make students industry-ready for Artificial Intelligence and Data Science job roles. Upon completion of this AI Engineer Program, you will receive the certificate from our side in the Artificial Intelligence courses on the learning path*. This certificate will testify to your skills as an expert in Artificial Intelligence.

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Duration	72 Hours
Mode	Online (Instructor-led, live & Interactive)
Projects (Real time scenario based)	1

FEATURES	DEVOPSSCHOOL	OTHERS
Faculty Profile Check	✔	✖
Lifetime Technical Support	✔	✖
Lifetime LMS access	✔	✖
Top 25 Tools	✔	✖
Interviews Kit	✔	✖
Training Notes	✔	✖
Step by Step Web Based Tutorials	✔	✖
Training Slides	✔	✖
Training + Additional Videos	✔	✖

Training

DevOps As part of this course, you would be strong in DevOps technology. You would learn Linux, Python, DevOps, Docker, Jira, Git, SonarQube, Maven, Ansible, Jenkins, Kubernetes, Datadog, Splunk, NewRelic, Terraform and various other stacks related to this methodology.

Projects

As part of this project, we would help our participant to have first-hand experience of real time software project development planning, coding, deployment, setup and monitoring in production from scratch to end. We would also help participants to visualize a real development environment, testing environment and production environments. Project technology would be based on Java, Python and DOTNET and based on Microservices concept.

Interview

As part of this, you would be given complete interview preparation support until you clear a interview and get on boarded with organization including demo interview and guidance. More than 50 sets of Interview KIT would be given including various project scenario of the projects.

AGENDA OF THE GITOPS ESSENTIAL TRAINING

Introduction of Artificial Intelligence

The way this introduction to Artificial Intelligence is designed to help learners decode the mystery of AI and the business applications. This introduction provides an overview of AI concept and workflow, machine learning, deep learning and performance metrics

1. **Decoding Artificial Intelligence**

   - 01 Meaning, Scope, and Stages of Artificial Intelligence
   - 02 Three Stages of Artificial Intelligence
   - 03 Applications of Artificial Intelligence
   - 04 Image Recognition
   - 05 Applications of Artificial Intelligence - Examples
   - 06 Effects of Artificial Intelligence on Society
   - 07 Supervises Learning for Telemedicine
   - 08 Solves Complex Social Problems
   - 9 Benefits Multiple Industries
   - 10 Key Takeaways

2. **Fundamentals of Machine Learning and Deep Learning**
   - 01 Fundamentals of Machine Learning and Deep Learning
   - 02 Meaning of Machine Learning
   - 03 Relationship between Machine Learning and Statistical Analysis
   - 04 Process of Machine Learning
   - 05 Types of Machine Learning
   - 06 Meaning of Unsupervised Learning
   - 07 Meaning of Semi-supervised Learning
   - 08 Algorithms of Machine Learning
   - 09 Regression
   - 10 Naive Bayes
   - 11 Naive Bayes Classification
   - 12 Machine Learning Algorithms
   - 13 Deep Learning
   - 14 Artificial Neural Network Definition
   - 15 Definition of Perceptron
   - 16 Online and Batch Learning
   - 17 Key Takeaways

3. Machine Learning Workflow

- 01 Learning Objective
- 02 Machine Learning Workflow
- 03 Get more data
- 04 Ask a Sharp Question
- 05 Add Data to the Table
- 06 Check for Quality
- 07 Transform Features
- 08 Answer the Questions
- 09 Use the Answer
- 11 Key takeaways

4. Performance Metrics

- 01 Performance Metrics
- 02 Need for Performance Metrics
- 03 Key Methods of Performance Metrics
- 04 Confusion Matrix Example
- 05 Terms of Confusion Matrix
- 06 Minimize False Cases
- 07 Minimize False Positive Example
- 08 Accuracy
- 09 Precision
- 10 Recall Or Sensitivity
- 11 Specificity
- 12 F1 Score
- 13 Key takeaways
- Knowledge Check

Data Science & Python

Python & the Data Science provides a complete overview of Data Analytics tools and all the techniques of using Python. Learning Python is not easy or mostly crucial for many Data Science roles. Gaining the knowledge in Python will become the key to unlocking your career opportunities as Data Scientist.

- 01 - Data Science Overview
- 02 - Data Analytics Overview
- 03 - Statistical Analysis and Business Applications
- 04 - Python Environment Setup and Essentials
- 05 - Mathematical Computing with Python (NumPy)
- 06 - Scientific computing with Python (Scipy)
- 07 - Data Manipulation with Pandas
- 08 - Machine Learning with Scikit–Learn
- 09 - Natural Language Processing with Scikit Learn
- 10 - Data Visualization in Python using matplotlib
- 11 - Web Scraping with Beautiful Soup
- 12 - Python integration with Hadoop MapReduce and Spark
- Practice Projects
- Math Refresher
- Data Science in Real life
- Python for Data Science
- Statistics Essential for Data Science

Machine Learning

You will understand the concept of Machine Learning and also how it's transforming the digital world. It's a very exciting branch of AI, This Machine Learning certification online course will enable you to become a ML Engineer.

- 01 Course Introduction
- 02 Introduction to AI and Machine Learning
- 03 Data Preprocessing
- 04 Supervised Learning
- 05 Feature Engineering
- 06 Supervised Learning Classification
- 07 Unsupervised Learning
- 08 Time Series Modeling
- 09 Ensemble Learning
- 10 Recommender Systems
- 11 Text Mining
- 12 Project Highlights
- Math Refresher
- Statistics Essential for Data Science

Deep Learning

Deep Learning is developed by the industry leaders and aligned with the best practices. You will master deep learning concepts and models and implementing deep learning algorithms will enable you to become a Deep Learning Engineer.

- 1 - Deep Learning with Keras and TensorFlow (Live Classes)
- 2 - Practice Projects
- 3 - Math Refresher
- 4 - Deep Learning Fundamentals

Advance deep Learning with computer vision:

- 01 - Self-paced Learning Curriculum
- DL Overview and Denoising Images with Auto encoders
- 2 Image Classification with Keras
- Construct a GAN with Keras
- Object Detection with YOLO
- - Generating Images with Neural Style
- 02 - Live Class Curriculum
- Course Introduction
- Prerequisites for the Course
- RBM and DBNs
- Variational AutoEncoder
- Working with Deep Generative Models
- Applications: Neural Style transfer and Object Detection
- Distributed & Parallel Computing for Deep Learning Models
- Reinforcement Learning
- Deploying Deep Learning Models and Beyond

Natural Language processing(NLP)

You will get a detailed look at the science of applying machine learning algorithms in Natural Language Processing (NLP) which will enable you to process the large amount of natural language data. Growth of the AI market is being driven by NLP. This course helps you to develop the skills required to become an NLP Engineer.

- **Section 01 - NLP Overview**
  - o Lesson 1 Working with Text Corpus
  - o Lesson 2 Processing Raw Text with NLTK
  - o Lesson 3 A Practical Real World Example of Text Classification
  - o Lesson 4 Finding Useful Information from Piles of Text
  - o Lesson 5 Developing a Speech to Text Application Using Python

- **Section 02 -NLP**
  - o Lesson 1 - Introduction to NLP
  - o Lesson 2 - Feature engineering on text data
  - o Lesson 3 - Natural Language Understanding techniques
  - o Lesson 4 - Natural Language Generation
  - o Lesson 5 - NLP Libraries
  - o Lesson 6 - NLP with Machine Learning and Deep Learning
  - o Lesson 7 - Speech recognition techniques

- **Natural Language Processing**
  - o Section 03 - Practice Projects
    - ▪ Twitter Hate
    - ▪ Zomato Rating

Thank you!

Connect with us for more info

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