Deep Learning with Python

Who we are

Techeduxon has been a platform for global online technology education since 2015. We are now taking it up a notch higher by introducing ways of advanced learning to up-skill and cross-skill your profession with cutting-edge, customized programs. With our Top Tier IT & Enterprise training Courses, We enable you to the forefront & become 'Industry Ready' in this Advancing & Unforeseen Digital World with your up skill Innovations.

Course Overview

- ✔ Fundamentals of Artificial Intelligence
- ✔ Machine Learning – Fundamentals
- ✔ Python
- ✔ Python Modules
- ✔ Deep Learning
- ✔ Tensor Flow
- ✔ Keras
- ✔ Convolution Neural Networks (CNNs)
- ✔ Tensor Board
- ✔ Natural Language Processing (NLP)

Course Content

Fundamentals of Artificial Intelligence

- Introduction of AI
- What is AI?
- What provides to Artificial Intelligence?
- Programming with Artificial Intelligence
- Programming without Artificial Intelligence
- Applications of Artificial Intelligence
- Types of Artificial Intelligence

Machine Learning – Fundamentals

- Introduction
- Applications & Uses of Machine Learning
- Types of Machine Learning & Algorithms
- Location of Distribution (Central Tendency)

Python

- Purpose of Python for Machine Learning
- Outline & Installation of ANACONDA
- Jupiter Note Book
- Variables
- Comprehension Operations
- Objects & Functions
- Modules

Python Modules

- Array manipulation using NumPy
- Data Analytics using Pandas
- Data Visualization using Matplotlib & Seaborn
- EDA (Exploratory Data Analysis)
- Regression and Classification of Sklearn & ML

Deep Learning

- Introduction
- ANN (Artificial Neural Networks) & DNN (Deep neural Networks)
- CNN (Convolution Neural Networks) & DBN (Deep Belief Networks)
- RNN (Recurrent Neural Networks) & GAN (Generative Adversarial Networks)

Tensor Flow

- Introduction
- Graphs
- Examples
- Data Structures
- Placeholders
- Create Neural Networks using Tensor Flow

Keras

- Introduction
- Comparisons b/w Keras & Tensor Flow
- Benefits of Keras
- Installing & Fundamentals of Keras
- Face Recognition Neural Networks with Keras

Convolution Neural Networks (CNNs)

- Introduction
- Architecture
- Basic Components of CNNs

- Operations
- Construct CNN using Tensor Flow & Keras

Tensor Board

- Introduction
- Visualizing the Modules using Tensor Board
- PyTorch Module
- Adding Scalar & Scalars, Image and Images
- Adding Histogram

Natural Language Processing (NLP)

- What is NLP & NLTK?
- Components of NLP
- Installation of NLP
- Tokenize words & Sentences with NLTK
- POS Tagging & Chunking with NLTK
- Stemming & Lemmatization with NLTK
- NLP applications
- Text summarization using NLP

Projects & Assignments

Our Expert trainers will provide the real time Projects &Assignments.

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