ipsr solutions ltd
redefining excellence

Syllabus

#Learn_from_Home

Basic AI with Deep Learning

Course Code : LFH/DAML/.....

Duration: 7 -10 days

Course Syllabus

INTRODUCTION

This industry oriented course is developed by both the Software development division & Training division of **ipsr solutions limited**. IPSR is **a public limited IT company** with 20 years of expertise in Software product development, Training services, Placement services & Digital Marketing services. During the past 2 decades, IPSR has trained candidates from **50+ countries** and helped **40000+ candidates** to build their IT career. Our IT services division is a pioneer in development of **Academic solution products**, incorporating cutting edge technologies like Artificial Intelligence, Data Analytics and Machine learning. Live industry experts from this IT division contribute a major role in delivering this course. Our placement division is having **1500+ placement tie-up companies** and we are conducting recruitment on all days.

The Course curriculum is designed and developed by a team of expertise panel lead by following academicians

- **Dr. Mendus Jacob, M.Sc., M.Phil., Ph.D., MIoD**
  - M.D & C.E.O - IPSR & Valin Technologies, U.K.
  - Director - MCA, Marian College, Kuttikkanam (Autonomous)
  - Former Director of School of Applicable Mathematics, M.G. University.
  - Academician and Entrepreneur with 30+ years experience
- **Dr. Sunil Job K.A, M.Sc, M.Ed, M.Phil, Ph.D., RHCE**
  - Chief of Academic Solutions - IPSR
  - Former college Principal and a Specialist in Data Analytics & Machine Learning
  - Blogger and a Resource person for National conferences
  - Academician with 25+ years experience

What you'll learn

✔Importance of Machine Learning,Deep Learning and Artificial Intelligence, its scope in the real world.

✔How to implement Deep Learning and learn about Deep Learning concepts.

Description

This course covers basic AI concepts using Deep Learning.

Course Outcome (CO)

While successfully completing this course, the learner will be able to:

- ➔ Explain the concepts of Deep Learning and AI
- ➔ Do prediction using real world data using Machine Learning and Deep Learning..

What does this course give you?

Skill required to implement Deep learning and Machine Learning in real world.

Prerequisites : Machine Learning using Python

Course content

Introduction to Deep Learning (Theory)

- Human Cognitive Abilities
- Neural Networks & similarity to human brain
- Real life applications

Artificial Neural network working

- Artificial Neural network architecture
- Artificial Neural network working

Working of neural network using mathematical visualization

- Gradient descent
- Activation – ReLu, Sigmoid, Tan h
- Backward propagation
- Feed Forward Network
- Weight and bias

Keras using TensorFlow

- Tensorflow introduction
- Keras introduction

Customer Churn Prediction Code using Deep Learning

Deep neural network

- Multi-layer perceptron
- Architecture

- Working

Convolutional Neural Network

- Architecture & Working

Recurrent Neural Network

- Architecture & Working

Long short memory network

- Architecture & Working

Recommended Learning Path

1. Basic Data Analysis -----> Advanced Data Analysis(zero coding)
2. Basic Data Analysis -----> Advanced Data Analysis------> Python for Data Analytics
3. Basic Data Analysis -----> Python for Data Analytics-----> Advanced Data Analytics using Python
4. Basic Data Analysis------> Python for Data Analytics----->Advanced Data Analytics using Python ----> Machine Learning
5. Basic Data Analysis------> Python for Data Analytics----->Advanced Data Analytics using Python ----> Machine Learning ------> Basic AI with Deep Learning

Contact Us

IPSR SOLUTIONS LTD.

Merchant's Association Building

M.L. Road, Kottayam - 686001

Kerala, India, Pin-686001

Phone: +91-481 2561410, 2561420, 2301085

Mobile: +91 9447294635, +91 9447169776

Email: training@ipsrsolutions.com

Website: http://www.ipsr.edu.in/

Learn_from_Home Portal: https://lms.ipsr.edu.in/

We have branches at Kochi, Thiruvananthapuram, Calicut and Bengaluru.