

#Learn_from_Home

Machine Learning

Course Code : LFH/DAML/03

Duration: 40 hrs

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., MloD**
 - ❑ 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, its types and scope of Machine Learning in real world.
- ✓ How to implement machine learning algorithm and do prediction in real world data.

Description

This course covers Machine Learning using Python.

Course Outcome (CO)

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

- Explain Machine Learning, its types and scope of Machine learning
- Learn different Machine Learning algorithms .
- Do prediction using real world data.

What does this course give you?

Skill required to implement machine learning algorithms in real world data.

Prerequisite: Professional Data Analysis, Data Analytics using Python

Course content

MACHINE LEARNING

Machine Learning Introduction

- Shallow Learning and Deep Learning
- Learning Methods
- Sklearn- machine learning modules

Supervised Learning

- Regression
 - Linear Regression
 - OLS Regression
 - Decision Tree Regressor
 - Random Forest Regressor
 - Cross validation – K-fold
- Classification
 - Logistic regression
 - Decision Tree
 - Random Forest
 - Support Vector Machine
 - Naïve Bayes classifier
 - K nearest neighbors
 - Cross validation – K-fold & Confusion matrix
- Unsupervised Learning (Data mining)
 - Partitioning method: K-Means Clustering.
 - Hierarchical Clustering method:
 - Density-Based Clustering: DBSCAN.
- Sample project explained

Data Cleaning to Machine Learning

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 -----> 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.