



# **IDOS Consultants LLP**

Nothing is achieved unless its implemented

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## **Machine Learning Training and Internship**

### **The objective of this Course is to:**

1. Make a learner ready for solving real life problems using ML.
2. Understand components of a machine learning algorithm.
3. Apply machine learning tools to build and evaluate predictors.
4. How machine learning uses computer algorithms to search for patterns in data.
5. How to uncover hidden themes in large collections of documents using topic modelling.
6. How to use data patterns to make decisions and predictions with real-world examples.
7. How to prepare data, deal with missing data and create custom data analysis solutions for different industries.
8. Understand the possibilities and limitations of ML, and know how to formulate your own ML problem.
9. Be ready to learn "Advanced ML".

### **Course Contents (40 hours of rigorous hands-on training):**

#### **1. Machine Learning Pipeline:**

- a. Formal Definition of Machine learning.
- b. ML tasks like classification, regression, clustering and more.
- c. Important Concepts w.r.t Maths and Statistics.
- d. ML Methods: Supervised, Un-Supervised, Reinforcement.
- e. Supervised & Un-Supervised Machine Learning Pipeline.

#### **2. Python Machine Learning Ecosystem:**

- a. NumPy basics for Data Science
- b. Pandas for Data Analysis
- c. Matplotlib for Data Visualization
- d. Scikit-Learn

#### **3. Processing, Wrangling, and Visualizing Data:**

- a. Handling Missing Values
- b. Handling Duplicates
- c. Encode Categorical
- d. Normalizing Numeric Values
- e. Data Summarization

#### **4. Feature Engineering and Selection:**

- a. Numeric Data, Categorical Data, Text Data, Temporal Data, Image Data
- b. Feature Scaling
- c. Feature Selection



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## **5. Machine Learning algorithms for supervised and unsupervised learning:**

- a. Naive Bayes Classification
- b. Linear Regression
- c. Support Vector Machines
- d. Decision Trees
- e. Random Forests
- f. KNN (K-Nearest Neighbors)
- g. k-Means Clustering
- h. Principal Component Analysis

## **6. Capstone project / Internship**

### **Payment Procedure:**

Step 1: Fill out your details in the below mentioned link:

<https://forms.gle/jDEDhHMQaZfgocXj9>

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- c. Offline Payment by Cheque/DD drawn in favor of “IDOS Consultants”

Thank You