

# UPLIFT Team Ai-10

The Curriculum for 3 Months are as follows:

## 1 Month

### 1 Week:

What is ML?, Need of ML?  
Applications of ML?, How to implement ml ?  
What are the libraries necessary for ML?  
Getting started with Numpy, Pandas

### 2nd week:

Data exploration with Pandas  
Visualization with Matplotlib  
Exploratory Data Analysis

### 3rd week:

Data cleaning  
Feature importance/ Feature Selection  
Feature engineering  
Introduction to ML algorithms : Linear regression

### 4th Week:

Decision tree  
Naive bayes  
SVM

## Month 2

### 5th Week:

Ensemble learning  
Evaluation Metrics  
Training and tuning models

### 6th Week:

Clustering  
Kmeans  
Dimensionality reduction

## Project Commencement

### 7th Week:

Data Collection, Preprocessing of data, EDA of data

### 8th Week:

Applying ML algos on data & improving the performance of the model

## Month 3

### 9th Week:

Intro to deployment, why deployment  
what is backend and frontend?  
Intro to flask, templates  
Understanding the Flask framework

### 10th Week:

Designing the frontend  
Flask forms  
Flask database connection

### 11th Week:

Backend connection of flask  
Connecting to heroku  
Deploying the project

## Project Domain:

Travel, Transport and hospitality

## Project Title:

Identifying the loyal customers (most valuable customers) in the travel industry.

Using the past data of how customers use a service often and provide them offers to retain them, The problem statement will be in the lines of  
"Predict behavior to retain customers"

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