

# 30 Days of Machine Learning | Syllabus

Educator Name: Nishant Dhote  
Contact: +91-7880-113-112

## Part: 1

### Day: 1 Introduction & Type of ML

Link: [https://www.youtube.com/live/8uDZjeXVa\\_4?si=v7rgw8HAWABjEPFa](https://www.youtube.com/live/8uDZjeXVa_4?si=v7rgw8HAWABjEPFa)

- What is Machine Learning
- How has Machine Learning evolved? The History of ML
- ML vs DL vs AI
- Data Science Vs Data Analytics Vs ML/AI/DL
- Types of machine learning

### Day:2 Batch | Model | Instance Based ML

Link: <https://youtu.be/cgmR7ELjcQ?list=PLxzTa0VPR9rzus4Egb-aOmCWier5XiOba>

- What is Batch / Offline Machine Learning?
- What is Online Machine Learning?
- Difference Between Online Vs Offline Machine Learning?
- Instance Based Machine Learning.
- Model Based Machine Learning.
- Instance Based Vs Model Based Machine Learning.
- Challenges in Machine Learning.
- Application of Machine Learning.
- Machine Learning Development Life Cycle.

### Day:3 MLDLC | CSV / JSON / SQL Data Gathering

Link: <https://www.youtube.com/live/zT-gldeF5Ks?si=Ctpz6673FHpwqnr5>

- Machine Learning Development Life Cycle (MLDLC/MLDC):
- Data science life cycle (DSLCL):
- Tools used in Machine Learning? Installing: Anaconda | Jupiter Notebook (IDEs)
- Optional Tools: Spyder | PyCharm | Noteable | Google Colab | Kaggle Notebooks | Microsoft Azure Notebooks | Apache Zeplin | Count.co and Many More
- How to import dataset and download data files?
- How we create virtual environment
- Data Gathering

- Working with CSV Files
- Working with JSON/SQL

#### **Day:4 Framing ML Problem | Fetching Data from an API**

Link: <https://youtu.be/Kev-JHvEd40?list=PLxzTa0VPR9rzus4Egb-aOmCWier5XiOba>

- Framing a Machine Learning Problem
- Data Gathering
  - Fetching data from an API
  - Fetching data using web scraping

#### **Day: 5 Web Scraping for Data Gathering**

Link: <https://youtu.be/DaGrAC0jTOk?list=PLxzTa0VPR9rzus4Egb-aOmCWier5XiOba>

- Fetching data using web scraping

## **Part: 2**

#### **Day: 6 EDA: Type of EDA | Univariate EDA**

Link: <https://youtu.be/E0B6lrzBxHM?list=PLxzTa0VPR9rzus4Egb-aOmCWier5XiOba>

- Types of Exploratory Data Analysis:
- Univariate Analysis
- Bivariate Analysis
- Multivariate Analysis
- How We Understand the Data?

#### **Day: 7 EDA: Bivariate | Multivariate**

Link: <https://youtu.be/pqqqt3BXdVFo?list=PLxzTa0VPR9rzus4Egb-aOmCWier5XiOba>

- EDA Bivariate Analysis
- EDA Multivariate Analysis

#### **Day: 8 Panda Profiling | Type of Feature Engineering**

Link: <https://www.youtube.com/live/JArbcZpvWuQ?si=IPVb9hhcD19RDuQ9>

- How do we use the pandas profiling tool?
- Feature Engineering

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- Feature Transformation
- Feature Construction
- Feature Selection
- Feature Selection

## Day: 9 Categorical Variables | One Hot Encoding | Ordinal & Label Encoding

Link : <https://youtu.be/aG6rEJvQkEc?list=PLxzTa0VPR9rzus4Egb-aOmCWier5XiOba>

- **How to Encode “Categorical Variables”?**
- What is categorical data?
- **Type of categorical data?**
- What is Ordinal Data?
- Ordinal Encoding
- Label Encoding
- What is Nominal Data?
- One Hot Encoding

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