

Week 2: Predictive Modelling (Total video duration= 1.65 hours. You will be required to spend 30 minutes/day along with practicing datasets and quizzes)

Mentor Session Duration: 2 hours

Faculty Name: Prof. Mukesh Rao

Number of videos: 9

Learning Outcomes from the Module:

After learning from this module, learners will be able to understand:

▶ **Concept of Linear Regression**

▶ **Concept of Multicollinearity**

▶ **Logistic Regression Learning Process**

▶ **Logistic Regression Variants**

▶ **LDA - How does it work**



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Video No.	Video Name	Duration of the video (rounded off to the nearest integer)	Topics Covered	Conceptual or Hands On
1	Agenda	02:00	<ul style="list-style-type: none"> Outline of the topics covered in the module 	Conceptual
2	Introduction to Logistic Regression	06:00	<ul style="list-style-type: none"> What is Logistic Regression? Types of Logistic Regression algorithms 	Conceptual
3	How Logistic Regression Models are built (Building Blocks)	37:00	<ul style="list-style-type: none"> Building Blocks of Logistic Regression Understanding the creation of Logistic Regression Model 	Conceptual
4	Logistic Regression Learning Process	09:00	<ul style="list-style-type: none"> Learning Process of Building Blocks of Logistic Regression 	Conceptual
5	Assumptions of Logistic Regression	03:00	<ul style="list-style-type: none"> Assumptions of Logistic Regression 	Conceptual

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6	Evaluating Logistic Regression Models	20:00	<ul style="list-style-type: none"> Classification Model Metrics 	Conceptual
7	Applications of Logistic Regression	01:00	<ul style="list-style-type: none"> Various applications of Logistic Regression 	Conceptual
8	Logistic Regression Pros and Cons	03:30	<ul style="list-style-type: none"> Advantages and Disadvantages of Logistic Regression 	Conceptual
9	Hands On Logistic Regression	18:30	<ul style="list-style-type: none"> A hands-on session on Logistic Regression 	Hands-On

Few textbooks that you can refer to:

1

Ashish Kumar

Learning Predictive Analytics with Python

2

Thomas W. Miller

Modeling Techniques in Predictive Analytics
with Python and R - A Guide to Data Science

3

Alvaro Fuentes

Hands-On Predictive Analytics with Python

