

Week 3: Predictive Modelling (Total video duration= 1.5 hours. You will be required to spend 30 minutes/day along with practicing datasets and quizzes)

Mentor Session Duration: 2 hours

Faculty Name: Dr. Abhinanda Sarkar

Number of videos: 7

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	Introduction to LDA	39:00	 Concept of Discriminant Analysis Concept of LDA Quadratic Discriminant Analysis Discriminant Analysis Applications Standardised, Unstandardised and Structure Coefficients Comparison with other techniques 	Conceptual
2	When LDA is used	05:30	In what situations does LDA comes to our rescue	Conceptual
3	How does LDA work	04:30	Multiple step approach to understand how LDA works	Conceptual
4	How are LDA models represented	01:30	Way to represent LDA models	Conceptual
5	How does an LDA make predictions	06:00	Approach of LDA while making predictions	Conceptual
	predictions		predictions	



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6	<u>Summary</u>	02:00	 Summarisation of the entire concept of LDA 	Conceptual
7	Hands-On Exercise on LDA	24:00	 A hands-on exercise on the working of LDA 	Hands-On



Few textbooks that you can refer to:

1

Ashish Kumar

Learning Predictive Analytics with Python

Thomas W. Miller

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

3

Alvaro FuentesHands-On Predictive Analytics with Python

