

 <b>Sushila Devi Bansal College of Technology</b> Umaria, A.B. Road, Near, Rau, Indore	<b>TUTORIAL I</b>	<b>Date of issue : 30/03/21</b>
	<b>Course: BE</b> <b>Branch: CSE</b> <b>Sub Code: CS 601</b> <b>Subject Name : Machine Learning</b> <b>Faculty: Shraddha Kumar.</b>	<b>Date of submission:</b>

1. Describe various types of Machine learning models.
2. What is regression model? Explain with the help of an example.
3. What is hypothesis testing? Explain Null and Alternate hypothesis with the help of an example.
4. Explain in brief Data Preprocessing steps used in a machine learning algorithm.
5. Write short notes on (a) Convex optimization (b) Data augmentation.
6. Explain the concept of Linearity and Non-Linearity.
7. What is an Activation function? explain any two.
8. Explain Backpropagation algorithm with the help of a flowchart.
9. Define L1 and L2 norms of regularization.
10. What is Gradient Descent Optimization in machine learning.

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