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| Dr. Vishwanath Karad  **MIT World Peace University, Pune** | **Theory Assignment 2** |

**Department of Computer Engineering and Technology**

Subject: Artificial Intelligence and ML Techniques

**Program: B.Tech. - CSF**

**Class: T.Y.**

**Date of assignment: 20th Nov 2023 Date of Submission: 27th Nov 2023**

1. Explain how does the Gradient Descent work in Linear Regression. [5 marks]
2. Name some Evaluation Metrics for Regression Model and when you would use one? [5 marks]
3. What is the difference between SoftMax and Sigmoid function. [5 marks]
4. Explain the terms overfitting and underfitting. [5 marks]