**DAILY ASSESSMENT FORMAT**

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| **Date:** | **13-07-2020** | **Name:** | **Bhavith** |
| **Course:** | **Mathematics for machine learning** | **USN:** | **4AL17EC009** |
| **Topic:** | **Introduction to the Course.** | **Semester & Section:** | **6th,A** |
| **Github Repository:** | **Bhavith-Online-Courses** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**  **Screenshot (191)**  **Screenshot (192)**  **Screenshot (193)** |
| **Report – Report can be typed or hand written for up to two pages.**   * **Linear Algebra is a branch of mathematics that lets you concisely describe coordinates and interactions of planes in higher dimensions and perform operations on them.** * **Think of it as an extension of algebra (dealing with unknowns) into an arbitrary number of dimensions.** * **Linear Algebra is about working on linear systems of equations (linear regression is an example: y = Ax). Rather than working with scalars, we start working with matrices and vectors (vectors are really just a special type of matrix).** * **Broadly speaking, in linear algebra data is represented in the form of linear equations.** * **These linear equations are in turn represented in the form of matrices and vectors.** * **Linear algebra is a sub-field of mathematics concerned with vectors,matrices, and linear transforms.** * **It is a key foundation to the field of machine learning, from notations used to describe the operation of algorithms to the implementation of algorithms in code.** * **Although linear algebra is integral to the field of machine learning, the tight relationship is often left unexplained or explained using abstract concepts such as vector spaces or specific matrix operations.** * **In this post, you will discover 10 common examples of machine learning that you may be familiar with that use, require and are really best understood using linear algebra.** |