**DAILY ASSESSMENT FORMAT**

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| **Date:** | **17/07/2020** | **Name:** | **PRIYA P RAO** |
| **Course:** | **Mathematics for Machine Learning** | **USN:** | **4AL18EC041** |
| **Topic:** | **Eigenvalues and Eigenvectors: Application to Data Problems** | **Semester & Section:** | **4th sem ‘A’ section.** |
| **Github Repository:** | **Priya-Rao** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**  **C:\Users\Pawan\Desktop\hh.PNG** |
| **In today’s session I have studied about:**   * **Key Concepts:** * **Identify geometrically what an eigenvector/value is** * **Apply mathematical formulation in simple cases** * **Build an intuition of larger dimension eigen systems** * **Write code to solve a large dimensional eigen problem**   **Eigenvectors are particular vectors that are un rotated by a transformation matrix, and eigen values are the amount by which the eigenvectors are stretched. These special 'eigen-things' are very useful in linear algebra and will let us examine Google's famous Page Rank algorithm for presenting web search results.** What are eigen-things  * + **[What are eigen values and eigenvectors](https://www.coursera.org/learn/linear-algebra-machine-learning/lecture/oPBNY/what-are-eigenvalues-and-eigenvectors)** * **[Selecting eigen vectors by inspection](https://www.coursera.org/learn/linear-algebra-machine-learning/quiz/H8zJQ/selecting-eigenvectors-by-inspection)** * **Getting into the detail of eigen problems**   + **[Special eigen-cases](https://www.coursera.org/learn/linear-algebra-machine-learning/lecture/urLNy/special-eigen-cases)** * **[Calculating eigenvectors](https://www.coursera.org/learn/linear-algebra-machine-learning/lecture/We8G9/calculating-eigenvectors)** * **[Characteristic polynomials, eigen values and eigenvectors](https://www.coursera.org/learn/linear-algebra-machine-learning/quiz/7Bm6K/characteristic-polynomials-eigenvalues-and-eigenvectors)** * **When changing to the eigen basis is really useful**   + **[Changing to the eigen basis](https://www.coursera.org/learn/linear-algebra-machine-learning/lecture/EcsN0/changing-to-the-eigenbasis)** * **[Eigen basis example](https://www.coursera.org/learn/linear-algebra-machine-learning/lecture/zYzjM/eigenbasis-example)** * **[Diagonalization and applications](https://www.coursera.org/learn/linear-algebra-machine-learning/quiz/YWc1j/diagonalisation-and-applications)** * **[Visualizing Matrices and Eigen](https://www.coursera.org/learn/linear-algebra-machine-learning/ungradedWidget/AVEfF/visualising-matrices-and-eigen)** * **Making the Page Rank algorithm** * **Eigen values and Eigenvectors: Assessment**   + **[Quiz: Eigen values and eigen vectors](https://www.coursera.org/learn/linear-algebra-machine-learning/exam/MlsNR/eigenvalues-and-eigenvectors)**   **This is the end of the fifth module and also, to the end of this course on linear algebra for machine learning.**   * **However, computers now do nearly all of the calculation work for us, and it's not typical for the methods appropriate to hand calculation to be the same as those employed by a computer.** * **This can mean that, despite doing lots of work, students can come away from a classical education missing both the detailed view of the computational methods, but also the high level view of what each method is really doing.** * **The concepts that we've been exposed to over the last five modules cover the core**   **of linear algebra.**   * **That we will need as we progress our study of machine learning.** |

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| **Date:** | **17/07/2020** | **Name:** | **PRIYA P RAO** |
| **Course:** | **Salesforce** | **USN:** | **4AL18EC041** |
| **Topic:** | * **Data Modeling** | **Semester & Section:** | **4th sem ‘A’ section** |
| **Github Repository:** | **Priya-Rao** |  |  |

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| **AFTERNOON SESSION DETAILS** |
| **Image of session**  **C:\Users\Pawan\Desktop\hhh.PNG** |
| **In today’s session I have learnt about:**   * [**Understand Custom & Standard Objects**](https://trailhead.salesforce.com/content/learn/modules/data_modeling/objects_intro)**:** * **Describe the perks of using objects on the Salesforce platform.** * **Explain the difference between standard objects and custom objects.** * **List the types of custom fields an object can have.** * [**Create Object Relationships**](https://trailhead.salesforce.com/content/learn/modules/data_modeling/object_relationships)**:** * **Define the different types of object relationships and their typical use cases.** * **Create or modify a lookup relationship.** * **Create or modify a master-detail relationship.** * [**Work with Schema Builder**](https://trailhead.salesforce.com/content/learn/modules/data_modeling/schema_builder)**:** * **Describe the advantages of using Schema Builder for data modelling.** * **Use Schema Builder to create a schema for a given object model.** * **Use Schema Builder to add a custom object to your schema.** * **Use Schema Builder to add a custom field to your schema.** |