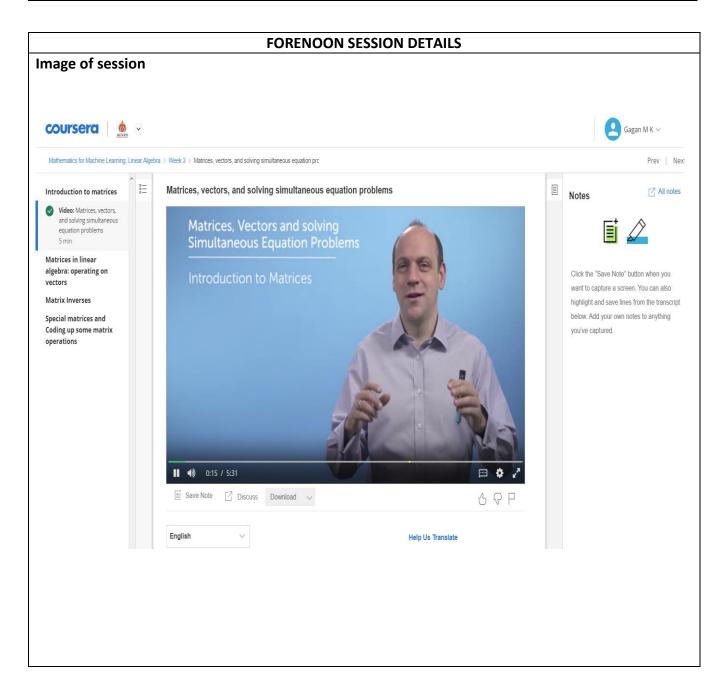
## **DAILY ASSESSMENT REPORT**

Date:	15 July 2020	Name:	Gagan M K
Course:	Mathematics for Machine Learning: Linear Algebra	USN:	4AL17EC032
Topic:	Week 3	Semester & Section:	6 <sup>th</sup> sem & 'A' sec
GitHub Repository:	Alvas-education- foundation/Gagan-Git		



Report – Report can be typed or hand written for up to two pages.

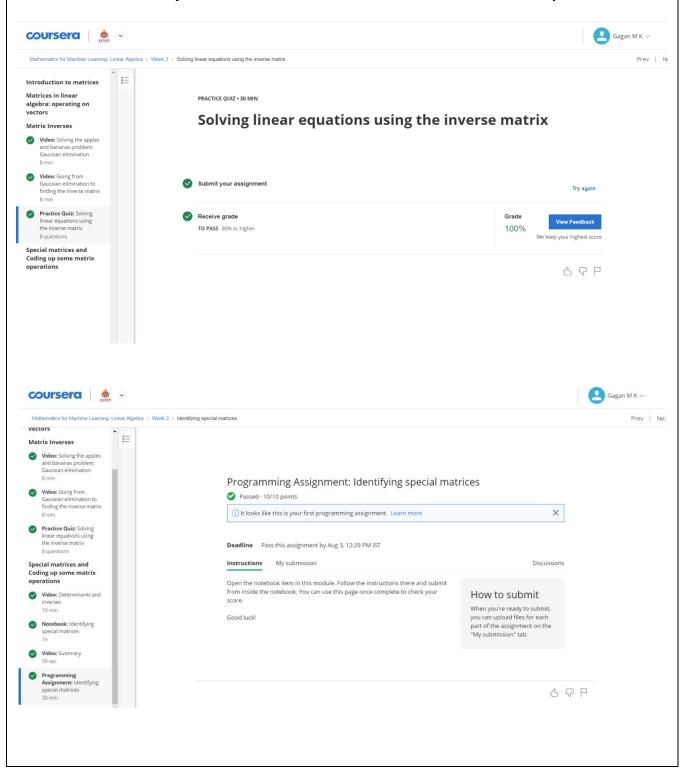
## Matrices, vectors, and solving simultaneous equation problems:

- Matrix is an arrangement of numbers into rows and columns. Make your first introduction
  with matrices and learn about their dimensions and elements. A matrix is a rectangular
  arrangement of numbers into rows and columns. For example, matrix A has two rows and
  three columns.
- The mathematical concept of a matrix refers to a set of numbers, variables or functions ordered in rows and columns. Such a setthen can be defined as a distinct entity, the matrix, and it can be manipulated as a whole according to some basic mathematical rules.
- Matrices can be used to compactly write and work with multiple linear equations, referred
  to as a system of linear equations, simultaneously. Matrices and matrix multiplication reveal
  their essential features when related to linear transformations, also known as linear maps.
- A matrix is a collection of numbers arranged into a fixed number of rows and columns. Usually the numbers are real numbers. In general, matrices can contain complex numbers but we won't see those here.
- In geology, matrices are used for making seismic surveys. They are used for plotting graphs, statistics and also to do scientific studies and research in almost different fields. Matrices are also used in representing the real world data's like the population of people, infant mortality rate, etc.
- Main point of the Matrix: The Matrix trilogy suggests that everyone has the individual responsibility to make the choice between the real world and an artificial world. Though Neo is the exemplar of free will, fate plays a large role in his adventure. Neo relies on the Oracle, and everything she says comes true in some way.

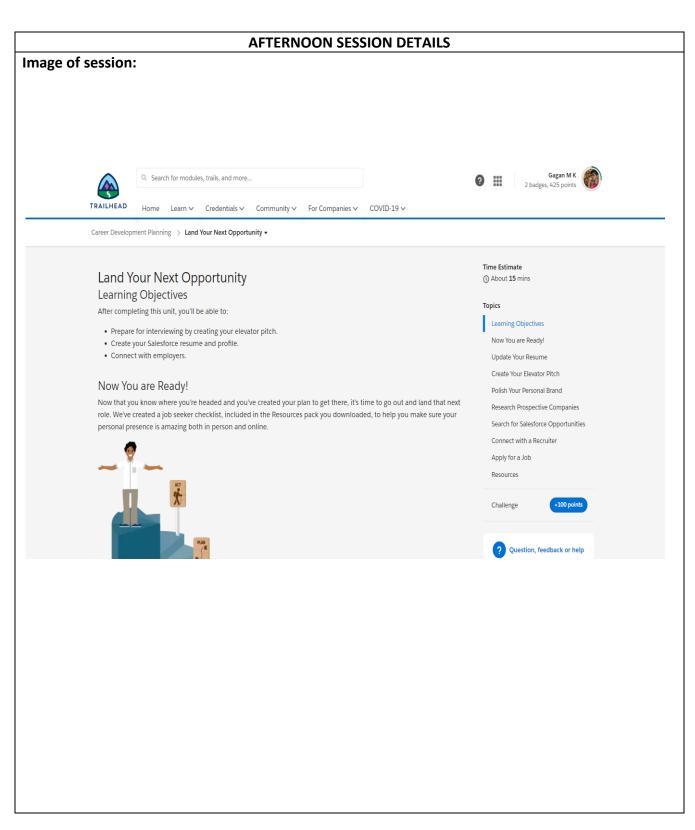
## **Application of Matrices:**

- Almost every branch of physics, including classical mechanics, optics, electromagnetism, quantum mechanics, and quantum electrodynamics, matrices are used to study physical phenomena, such as the motion of rigid bodies.
- Matrices have also come to have important applications in computer graphics, where they
  have been used to represent rotations and other transformations of images. is a 2 × 3 matrix.
   A matrix with n rows and n columns is called a square matrix of order n.
- Matrices are classified according to the number of rows and columns, and the specific elements therein. (i) Row Matrix: A matrix which has exactly one row is called a row matrix. The above two matrices are row matrices because each has only one row.
- Matrices are a useful way to represent, manipulate and study linear maps between finite dimensional vector spaces (if you have chosen basics). The Matrix (1999) and continuing with two sequels, The Matrix Reloaded and The Matrix Revolutions (both in 2003), all written and directed by the Wachowskis and produced by Joel Silver.
- The term matrix was introduced by the 19th-century English mathematician James Sylvester, but it was his friend the mathematician Arthur Cayley who developed the algebraic aspect of matrices in two papers in the 1850s.

- In biology, matrix is the material (or tissue) in animal or plant. Structure of connective tissues
  is an extracellular matrix It is found in various connective tissue. It is generally used as a jelly
  like structure instead of cytoplasm in connective tissue.
- This matrix just tells us where the basis vectors go. That's the transformation it does.It's not
  a complicated, multiplying out thing. We don't need to worry about the mechanics of doing
  the sum. We can just think of it in terms of what it does to vectors in the space.



Date:	15 July 2020	Name:	Gagan M K
Course:	Trailhead	USN:	4AL17EC032
Topic:	<ul><li>Land Your Next</li><li>Opportunity</li></ul>	Semester & Section:	6 <sup>th</sup> sem & 'A' sec



Report – Report can be typed or hand written for up to two pages.

- Prepare for interviewing by creating your elevator pitch.
- Create your Salesforce resume and profile.
- Connect with employers.
- Now that you know where you're headed and you've created your plan to get there, it's
  time to go out and land that next role. We've created a job seeker checklist, included in the
  Resources pack you downloaded, to help you make sure your personal presence is amazing
  both in person and online.
- If you haven't updated your resume in a while, it's time to dust it off and add in your most recent work experience, and any new skills and certifications you've earned.
- If you're making a major career change or changing industries, consider hiring a professional to help you position your previous experience that is relevant for the new role.
- Make sure you proofread your resume carefully. Have a friend or family member read it over if you can. You don't want to miss out on an opportunity because you missed a typo.
- An elevator pitch is the 30-second story of who you are and where you want to go, and it usually ends with a specific ask or request. It's your personal "commercial." Hone and practice it until you can deliver it smoothly.
- Your elevator pitch is the perfect response to questions like, "Tell me about yourself" or "What do you do?" It can prepare you for that chance encounter with the company CEO in the elevator (or in the line at the coffee shop, or anywhere!).
- Your social media presence is the new resume. Employers and recruiters look to social media
  to learn more about candidates, so it's important to make sure your profiles are top notch
  and that your personal brand is epic, amazing, and every bit as professionally compelling as
  you are in real life.
- Complete your profile on Trailhead. Make sure you have a professional photo and use your newly perfected elevator pitch for your bio.
- The Salesforce community is on Twitter, so that's a great place look for news and information as well as establish yourself as a thought leader.
- Ready to start your search? In addition to the general job sites such as dice.com, monster.com, and others, there are many specific job boards for Salesforce roles. Here are a few of the job boards.
- AppExchange Jobs Marketplace: Search for jobs by location or title, or post your profile for employers to find.
- Jobs at Salesforce: Work at the company voted "most innovative company in the world" for the past 5 years by Forbes magazine.
- Trailblazer Community: There are various groups dedicated to job search and job postings such as the Jobs Postings group.
- CRM Market: A community marketplace for people and entities to list projects, discover talent, and implement Salesforce solutions.