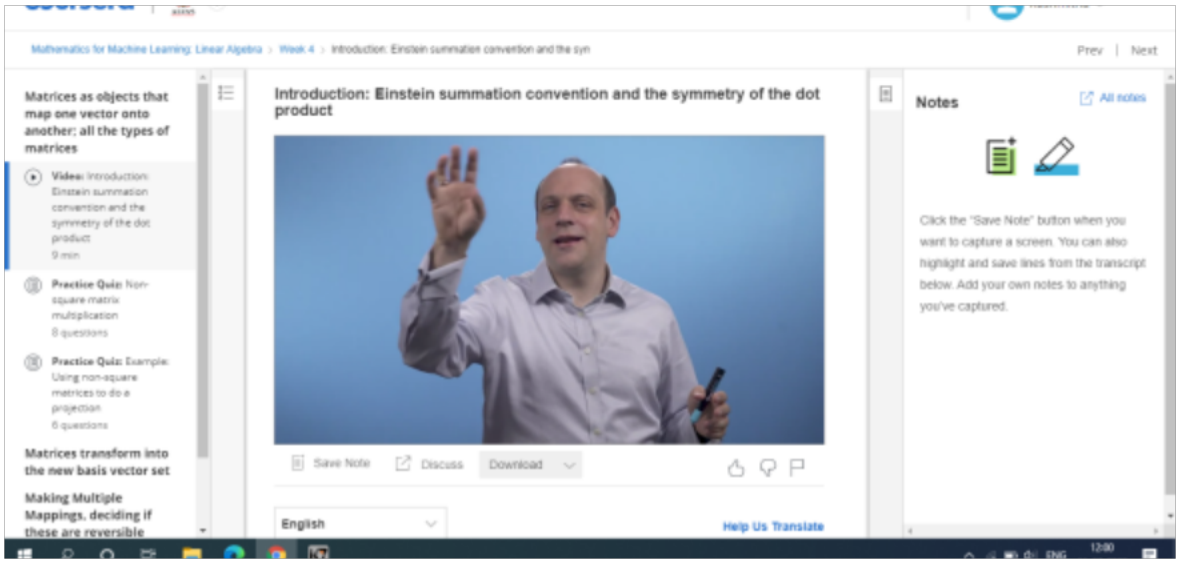
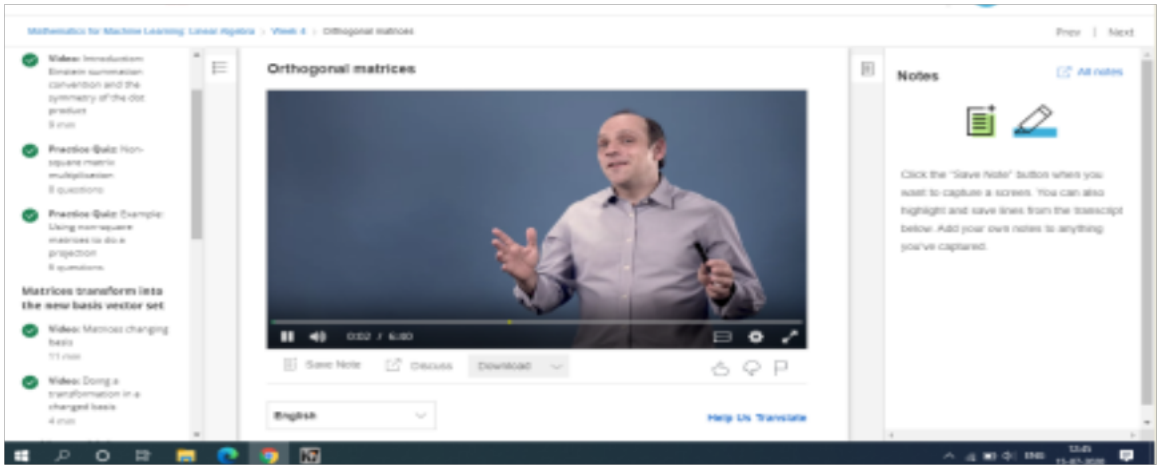
DAILY ASSESSMENT FORMAT

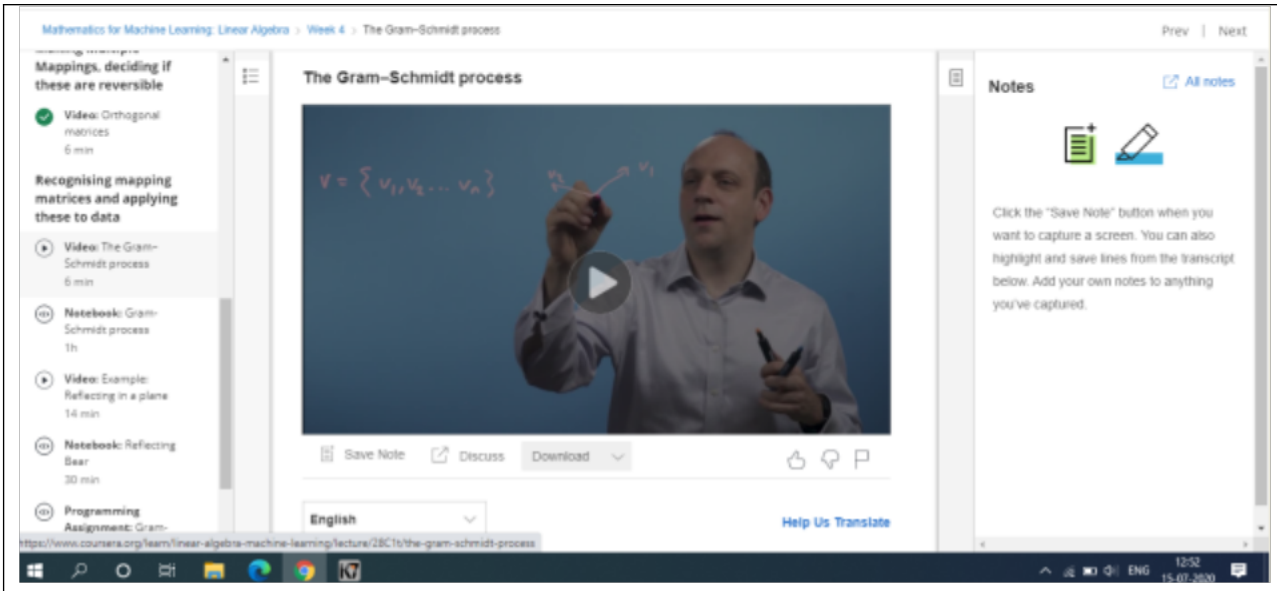
Date:	16th July 2020	Name:	Rajeshwari Gadagi
Course:	coursera	USN:	4AL17EC076
Topic:	Mathematics for machine learning:Linear Algebra	Semester & Section:	6th sem 'B' sec
Github Repository:	Rajeshwari-gadagi		

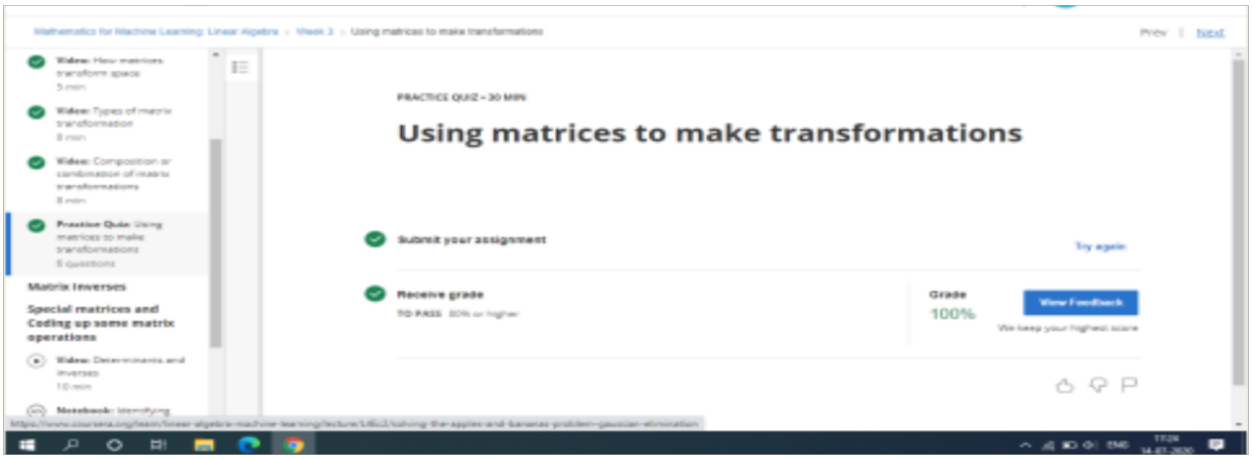
FORENOON SESSION DETAILS

Image of session





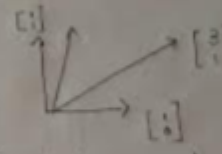

Mathematics for Machine Learning: Linear Algebra
Week 4
The Gram-Schmidt process
Prev
Next
Mappings, deciding if these are reversible
Video: Orthogonal matrices
6 min
Recognising mapping matrices and applying these to data
Video: The Gram-Schmidt process
6 min
Notebook: Gram-Schmidt process
1h
Video: Example: Reflecting in a plane
14 min
Notebook: Reflecting Bear
30 min
Programming Assignment: Gram-
The Gram–Schmidt process
Save Note
Discuss
Download
English
Help Us Translate
Notes
All notes
Click the "Save Note" button when you want to capture a screen. You can also highlight and save lines from the transcript below. Add your own notes to anything you've captured.
ENG
12:52
15-07-2020


PRACTICE QUIZ – 30 MIN
Using matrices to make transformations
Submit your assignment
Try again
Receive grade
TO PASS 80% or higher
Grade
100%
View Feedback
We keep your highest score
Matrix Inverses
Special matrices and Coding up some matrix operations

Einstein summation convention and the symmetry of the dot product :-

$$\begin{pmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & & \\ \vdots & & & \\ a_{n1} & & & a_{nn} \end{pmatrix} \begin{pmatrix} b_{11} & b_{12} & \cdots & b_{1n} \\ \vdots & & & \\ b_{n1} & & \cdots & b_{nn} \end{pmatrix} = \begin{pmatrix} & & & \\ & & & \\ & & & \\ & & & \end{pmatrix}$$

$$(ab)_{ij} = a_{i1}b_{1j} + a_{i2}b_{2j} + \cdots + a_{in}b_{nj}$$



Bear's basis vectors $\begin{bmatrix} 3 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ 3 \end{bmatrix}$ in my frame

$$\frac{1}{2}\begin{bmatrix} 3 & 1 \\ 1 & 3 \end{bmatrix}\begin{bmatrix} 3/2 \\ 1/2 \end{bmatrix} = \begin{bmatrix} 5 \\ 2 \end{bmatrix} = 5\begin{bmatrix} 1/2 \\ -1/2 \end{bmatrix} + 2\begin{bmatrix} 1/2 \\ 1/2 \end{bmatrix} = \frac{1}{2}\begin{bmatrix} 3 \\ 1 \end{bmatrix}$$

$$\frac{1}{\sqrt{2}}\begin{bmatrix} 1 & -1 \\ 1 & 1 \end{bmatrix}\begin{bmatrix} 2 \\ 1 \end{bmatrix} = \frac{1}{\sqrt{2}}\begin{bmatrix} 1 \\ 3 \end{bmatrix}$$

$$\frac{1}{\sqrt{2}}\begin{bmatrix} 1 & 1 \\ -1 & 1 \end{bmatrix}\frac{1}{\sqrt{2}}\begin{bmatrix} 1 \\ 3 \end{bmatrix} = \frac{1}{2}\begin{bmatrix} 4 \\ 2 \end{bmatrix} = \begin{bmatrix} 2 \\ 1 \end{bmatrix}$$

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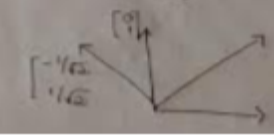

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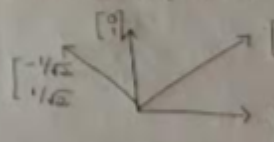

Orthogonal Matrices :-

$$A_{ij}^T = A_{ji}$$

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}^T = \begin{pmatrix} 1 & 3 \\ 2 & 4 \end{pmatrix}$$

$$((a_1)(a_2)\cdots(a_2))$$

$$a_i a_j = 0 \quad ; i \neq j$$

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Date:	16th July 2020	Name:	Rajeshwari Gadagi
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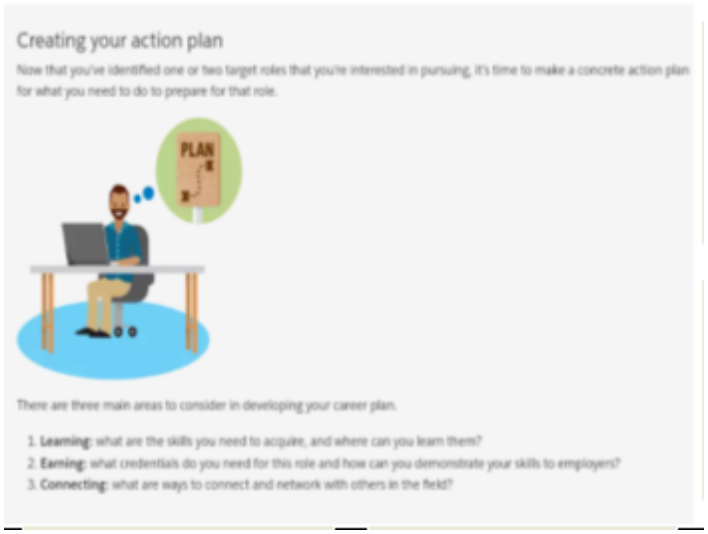
Github Repository:	Rajeshwari-gadagi		

AFTERNOON SESSION DETAILS

image of session



Creatingyouractionplan:

Now that youve identified one or two target roles that you're interested in pursuing it's time to

Make a concrete action plan for what you need to do to prepare for that role.

Developing your career plan:

There are three main areas to consider in developing your career plan.

Learning:

What are the skills you need to acquire,and where can you learn them?

Earning:

What credentials do you need for this role and how can you demonstrate your skills to employers?

Connecting:

What are ways to connect and network with others in the field?

Learning:

For most skills and roles,you can find many options for learning from self-paced online learning to instructor-led classes,events,and even formal degree programs.What type of learning you choose to do depends on your time,learning style,and budget.Sometimes what works best for you is a combination of different learning programs.There's no one right way.It's up to you to choose the adventure that works best for you.

LearnOnline:

One of the best ways to skill up for Salesforce career paths is through Trail head the fun,free,hands-

On way learn.If you're new to Trail head,here area few recommendation son where to start.

Check out a few resources to get you started.

*TrailheadCollaborationGroupontheTrailblazerCommunity

*SalesforceUserGroups

*SalesforceDeveloperMeetups

*FeaturedOnlineCollaborationGroups

For developers,there are some additional resources and ways to connect to theth rivingcommunity of more than 3 million Salesforce developers.

*The Salesforce developers discussion forums area n important resource toget answers to

your questions.It’s not uncommon for project managers,developers,and other R&D staff to contribute.

*On the Salesforce Stack Exchange ,get expert guidance from an active developer communityfeaturing some of them ost prominent developers from across the globe.

*Using the # ask force hash tag on Twitter immediately connects you to hundreds of Salesforce

Administrat or sand developers.The answer to your 280-Character questions is sometimes onlyafew seconds away!Attend a Local Event:Can’t get to Dream force?Attendane vent then exttime weroll into your home town.

These events give you the chance to attend great key notes,learn first hand from leadingcustomers how to be successful with Salesforce,and getup close and personal with our entire suit eof products.

You can also find Salesforce User Groups in cities around the world thatmeet regularly to network and learn.Here area few resources for find ingin-person events.

Salesforce User Groups:

User groups are customer organized groups that meet on line and in person.Join one today to network,

Share ideas,and get tips on how toget the most out of Salesforce.

Salesforce Developer Groups:

Forperson-to person interaction,join a local Developer Group.

There are more than 160 groups around the world,and more are springing up all the time.

Salesforce Meetups:

Find in dependent local events to meet Sales forceusers,administrators,and developers in your area.

Swap business cards and develop a support network of Salesforce professionals.

Community Events:

Join the community of Customer Trailblazers at an event near you.Keep an eye out for the Salesforce Developer Event sand Salesforce Admin Events in acity near you as well.