

DAILY ASSESSMENT FORMAT

Date:	13 th July 2020	Name:	K B KUSHI
Course:	coursera	USN:	4AL17EC107
Topic:	<ul style="list-style-type: none"> Mathematics for machine learning: Linear Algebra Ames revision class 	Semester & Section:	6 th sem 'B' sec
GitHub Repository:	KUSHI-COURSES		

FORENOON SESSION DETAILS

Image of session

The screenshot displays a web browser window with multiple tabs. The active tab is a Coursera lecture page. The page header includes the Coursera logo and the user's name, Sushmitha R naik. The breadcrumb trail indicates the course is 'Mathematics for Machine Learning: Linear Algebra' and the current lecture is 'Getting a handle on vectors'. The video player shows a man presenting with a blue background featuring mathematical sketches, including a Gaussian distribution, a vector diagram, and the equation $2 \exp\left\{-\frac{(x-\mu)^2}{2\sigma^2}\right\}$. To the right of the video is a note-taking interface with a 'Save Note' button and instructions. The Windows taskbar at the bottom shows the search bar, task view button, and various application icons, with the system clock showing 11:14 on 13-07-2020.

Machine learning is the latest in a long line of attempts to distill human knowledge and reasoning into a form that is suitable for constructing machines and engineering automated systems. As machine learning becomes more ubiquitous and its software packages become easier to use, it is natural and desirable that the low-level technical details are abstracted away and hidden from the practitioner. However, this brings with it the danger that a practitioner becomes unaware of the design decisions and, hence, the limits of machine learning algorithms. The enthusiastic practitioner who is interested to learn more about the magic behind successful machine learning algorithms currently faces a daunting set of pre-requisite knowledge: Programming languages and data analysis tools Large-scale computation and the associated frameworks Mathematics and statistics and how machine learning builds on it At universities, introductory courses on machine learning tend to spend early parts of the course covering some of these pre-requisites. For historical reasons, courses in machine learning tend to be taught in the computer science department, where students are often trained in the first two areas of knowledge, but not so

much in mathematics and statistics. Current machine learning textbooks primarily focus on machine learning algorithms and methodologies and assume that the reader is competent in mathematics and statistics. Therefore, these books only spend one or two chapters of background mathematics, either at the beginning of the book or as appendices. We have found many people who want to delve into the foundations of basic machine learning methods who struggle with the mathematical knowledge required to read a machine learning textbook. Having taught undergraduate and graduate courses at universities, we find that the gap between high school mathematics and the mathematics level required to read a standard machine learning textbook is too big for many people. This book brings the mathematical foundations of basic machine learning concepts to the fore and collects the information in a single place so that this skills gap is narrowed or even closed.

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. In this course on Linear Algebra we look at what linear algebra is and how it relates to vectors and matrices. Then we look through what vectors and matrices are and how to work with them, including the knotty problem of eigenvalues and eigenvectors, and how to use these to solve problems. Finally we look at how to use these to do fun things with datasets - like how to rotate images of faces and how to extract eigenvectors to look at how the Pagerank algorithm works.

Since we're aiming at data-driven applications, we'll be implementing some of these ideas in code, not just on pencil and paper. Towards the end of the course, you'll write code blocks and encounter Jupyter notebooks in Python, but don't worry, these will be quite short, focussed on the concepts, and will guide you through if you've not coded before. At the end of this course you will have an intuitive understanding of vectors and matrices that will help you bridge the gap into linear algebra problems, and how to apply these concepts to machine learning.

AMES DISCUSSION:

You are viewing tanya mendez's screen View Options

Module-1

- With a neat diagram, explain the architecture of ARM cortex M3 microcontroller. (10 Marks)
 - Explain the register organization of Cortex M3. (06 Marks)

OR

- Explain the operation modes and privilege levels available in ARM cortex M3 with a neat transition diagram. (06 Marks)
 - Mention the instructions used for accessing the special registers. Explain the same using suitable examples. (04 Marks)
 - Explain the stack operations using Push and Pop instructions in ARM Cortex M3. (06 Marks)

July 2018

Module-1

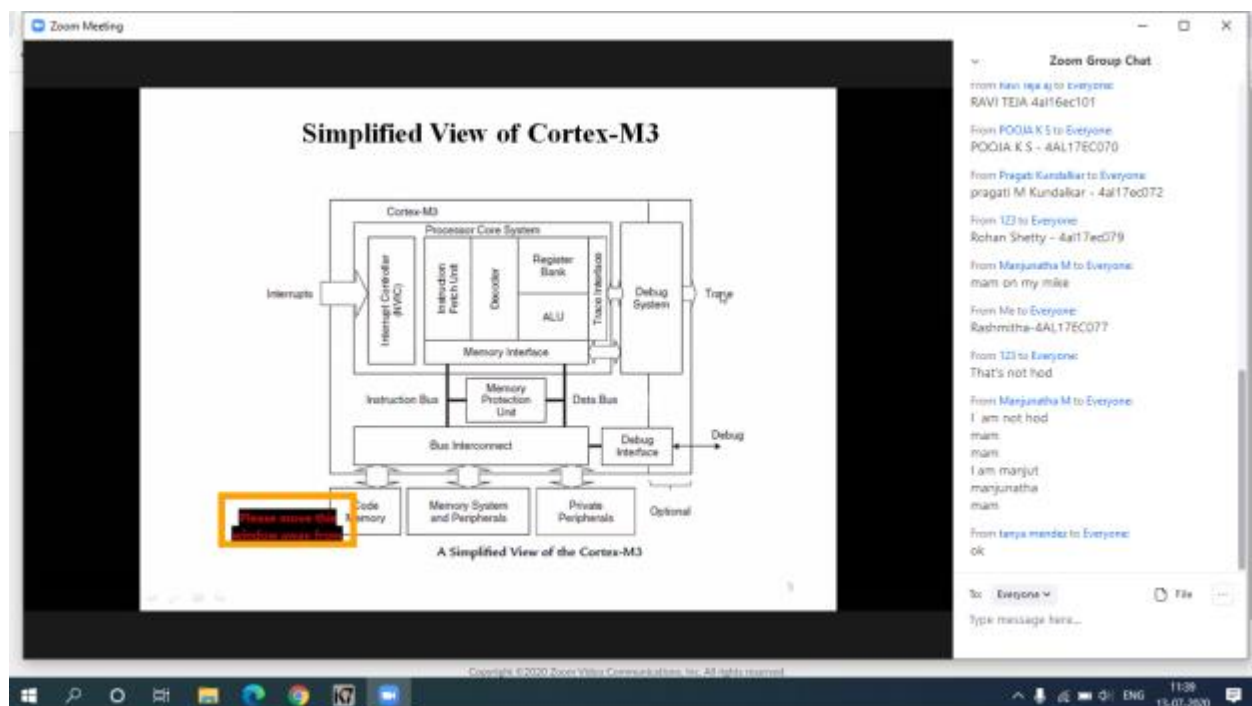
- Explain the architecture of ARM cortex – M3 processor with neat diagram. (08 Marks)
 - With neat diagram, explain operation mode and privilege levels in cortex M3. (08 Marks)

OR

- What is stack? Explain push and pop operation. With the help of a neat diagram. (07 Marks)
 - Explain in detail special registers used in ARM cortex M3 processor. (09 Marks)

July 2019

Unmute Start Video Participants 52 Chat Share Screen Record Screen



Simplified view of cortex M3:

- Hardward architecture
- 32 bit architecture
- NVIC
- Memory protection unit
- R0-R12: general purpose register
- R13:stack pointer
- Program counter is used to hold the next instruction to be executed

- **Special registers:**
 1. **program status registers**
 2. **interrupt mask registers**
 3. **control status register**

Feature of NVIC:

1. **Nested interrupt support**
2. **Vectored interrupt support**
3. **Dynamic priority changes support**
4. **Reduction of interrupt latency**
5. **Interrupt masking**

Application :

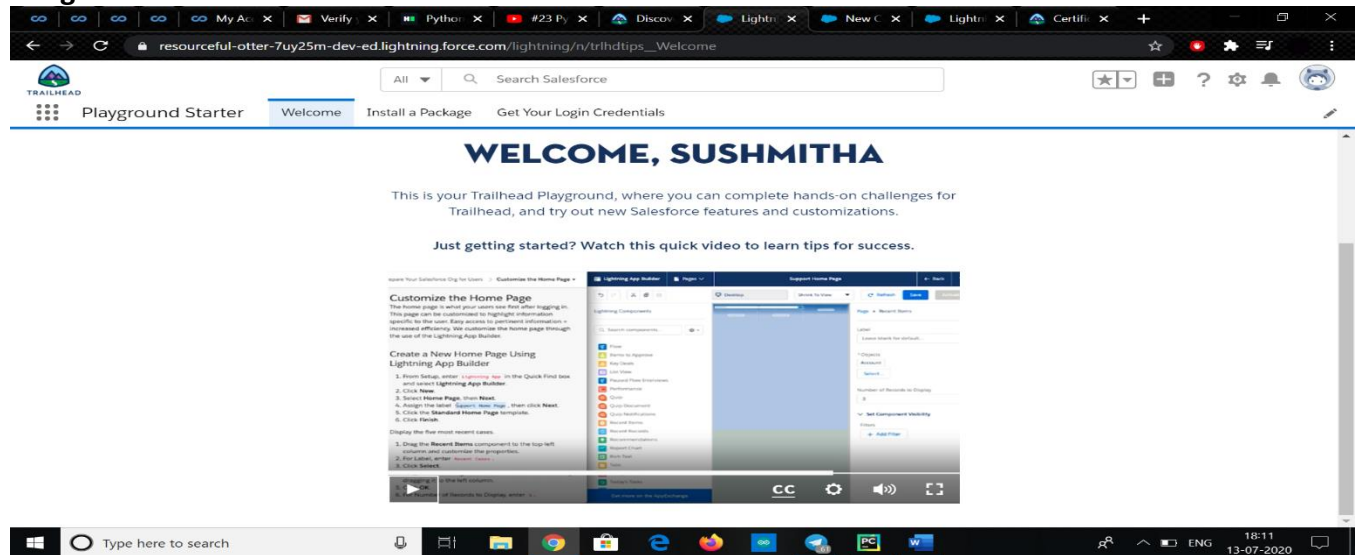
1. **Consumer product**
2. **Automotive parts**
3. **Real time system**
4. **Data communication**
5. **Industrial control**

DAILY ASSESSMENT FORMAT

Date:	13 th July 2020	Name:	K B KUSHI
Course:	Salesforce	USN:	4AL17EC107
Topic:	build-your-career-with-salesforce-skills	Semester & Section:	6 th sem 'B' sec
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AFTERNOON SESSION DETAILS

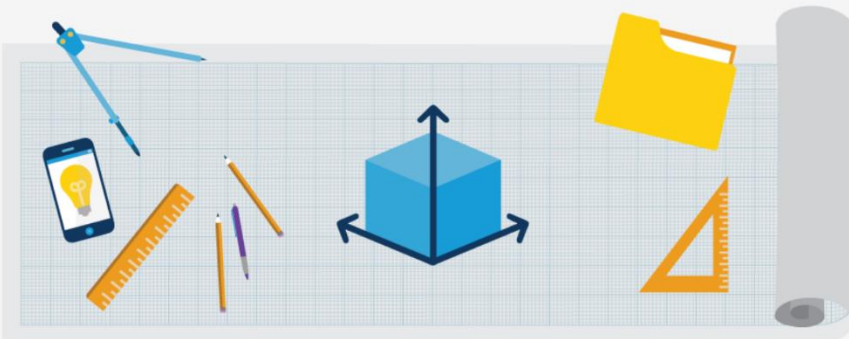
image of session



Build Your Career in the Salesforce Ecosystem > Public Speaking Skills > Choose the Right Event and Topic ▾

- Using Application Events with Lightning Components

These are awesome topics, but she only wants to submit a single idea—the one that will be the most fun to present and draw the biggest audience. She reaches out to her network on social media and on the success and developer communities, where she posts a poll to see what others think of these ideas. Turns out that not only is “Tips for People New to Lightning Components” the most popular idea, but her buddy Lek Bunyasarn is keen to present with her. Bonus!



Time Estimate
⌚ About 20 mins

Topics

- Learning Objectives
- Choose the Right Event for You
- Select a Topic
- Write an Abstract
- Define Your Audience
- Define Your Learning Objectives
- Define Your Prerequisites
- Write Your Abstract
- Resources

Challenge +100 points

During this process, Nyah gets some feedback that the topic title is a little dull. Over a web conference, she and Lek

- **Knowing what motivates you and what matters in your life**
- **Identifying your strengths and opportunities to improve**

- Finding out what you're most interested in

What we want can change over time—our priorities change, we can discover new interests or skills that we want to develop and learn. This is an opportunity to check in and see where you are today.

Land Your Next Opportunity

Learning Objectives

After completing this unit, you'll be able to:

- Prepare for interviewing by creating your elevator pitch.
- Create your Salesforce resume and profile.
- Connect with employers.

Now You are Ready!

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.

