

Daily Assessment Journal

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Course: Mathematics 1st year

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Topic: machine learning

Subject: linear algebra

Repository: Jyoti-concepts

Report

Machine learning is the latest in a long line of attempts to distill human knowledge & reasoning into a form that is suitable for constructing machines & engineering automated systems. As machine learning becomes more ubiquitous & its software package become easier to use it is natural & desirable that the low-level technical details are abstracted away & hidden from the practitioner. However, this brings with it the danger that a practitioner becomes unaware of the design decisions & hence the limits of machine learning algorithms. The enthusiasm for a daunting set of pre-requisite knowledge programming languages & data analysis tools large-scale computation & the associated frameworks mathematics & statistics & how machine learning builds on it at universities, introductory courses on machine learning tend to send early parts of the course covering some of these pre-requisites.

Linear algebra is a sub-field of mathematics concerned with vectors, matrices & linear transformations. 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 & how it relates to vectors & matrices then we look

through what vectors & matrices are & how to work with them including the closely problem of eigenvalues & eigenvectors, & how to use that to solve problems. Finally we look at how to use these to do fun things with datasets - like how to rotate images of faces & 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 & paper. Towards the end of the course, you'll write code blocks & encounter jupyter notebooks in python, but don't worry, these will be quite short, focused on the concepts, & I will guide you through if you've not coded before.

Date: 13/Jul/2020

Course: salesforce

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GitHub
Repository: jyoti-course

Topic: build-your career with
salesforce skills

Report

Assess yourself
Learning objectives

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

- list the steps for creating a career plan.
- identify your unique strengths, skills & talents & what's important to you.
- Describe the different elements of self-assessment

A Quick introduction to career Development

Whether you're just starting out in your career or already have a few years of experience under your belt, it can be helpful to step back & think about your career plan. career planning is not a one-time event, it's an ongoing process to revisit throughout your career as your priorities & interests shift & range

Get to know yourself

The first step in managing your career is to get a clear picture of who you are and what you want. This includes:

- knowing what motivates you & what matters in your life
- identifying your strengths & opportunities to improve
- identifying 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 & learn - this is an opportunity to check in & 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 & profile
 - connect with employers

Now you are ready!

Now that you know where you're headed & you've created your plan to get there, it's time to go out & 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 & online.

AMES DISCUSSIONS

Simplified view of Cortex M3

- Hardware architecture
- 32 bit architecture
- NVIC
- memory protection unit
- R0-R12; general purpose registers
- R13; stack pointer
- program counter is used to hold the next instruction to be executed
- special registers:
 - program status register
 - interrupt mask register
 - control status register

feature of NVIC

- nested interrupt support
- vectored interrupt support
- Dynamic priority changes support
- reduction of interrupt latency
- interrupt masking

Application

- consumer product
- Automotive parts
- Real time systems
- Data communication
- industrial control.

operation mode of cortex M3

- has two modes & two privilege levels
 - operation modes (thread mode & handler mode)
- determine the whether processor is:

- running a normal program
- running an exception handler like an interrupt handler or system exception handler

privileged	User
handler mode	
thread mode	thread mode

operation modes & privilege levels in cortex M3

stack push & pop

