**DAILY ASSESSMENT FORMAT**

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| **Date:** | **13/07/2020** | **Name:** | **Nichenametla Bhargavi** |
| **Course:** | **Mathematics for Machine Learning: Linear Algebra** | **USN:** | **4AL17EC061** |
| **Topic:** | **1. Welcome to this course. 2. The relationship between machine learning, linear algebra, and vectors and matrices. 3. Vectors** | **Semester & Section:** | **6th Sem A sec** |
| **Github Repository:** | **Bhargavi\_Nichenametla** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session** |
| **Report- Report can be typed or handwritten upto one or two pages.**  **\* 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.**  **\* 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.** |
| **“Attended Revision Class On 13 July 2020 on AMES by Tanya Ma’am”**  **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 interupt support**  **2. Vectored interupt support**  **3. Dynamic priority changes support**  **4. Reduction of interupt latency**  **5. Interupt masking**  **Application :**  **1. Consumer product**  **2. Automative parts**  **3. Real time system**  **4. Data communication**  **5. Industrial control** |

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| **Course:** | Sales force | **USN:** | **4AL17EC061** |
| **Topic:** | 1. Assess yourself  2. Explore Career options | **Semester & Section:** | **6th Sem A sec** |

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| **AFTERNOON SESSION DETAILS** |
| **Image of the session** |
| **Report:**  **\* 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 and 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 and interests shift and change.**  **\* There are various directions you can explore: up, down, and sideways. When you’re clear about your career goals, you can choose the options that are the best fit. Then it’s time to get ready for new experiences or new roles.**  **\* The career development process can be helpful to revisit when you’re thinking about switching careers or applying your existing experience to work in a new field. Or maybe you’re returning to work after a period out of the workforce.**  **\* You can use these three simple steps to plan your career.**  **\* Discover: Get to know yourself, including your motivations, experiences you want, skills to build, and career goals to achieve. Research and explore opportunities and career paths that interest you and that may not have considered before.**  **\* Plan: Identify a goal and any skills you need to build or to reach that goal. Lay out a plan of how you will achieve that goal.**  **\* Act: Take action on your plan. Identify how to get connected to employers and mentors that can help you. Prepare your resume and social media presence to land that dream job.**  **\* The first step in managing your career is to get a clear picture of who you are and what you want: 1.Knowing what motivates you and what matters in your life.**  **2. Identifying your strengths and opportunities to improve**  **3. 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.**  **\* There are many free self-assessment tools out there to help you identify your own values, skills, and interests. We’ve provided links to a few of them in the resources section. You may want to start by exploring some of these tools.**  **\* We’ve also provided a Career Exploration Resources pack with worksheets to guide you through each step of career development process. We recommend downloading it and finding a quiet place where you can work through it.**  **“Attended Webinar on DRONE INDUSTRY INSIGHTS conducted by AIET”** |