

- 1) What ideas did you find most challenging? Most interesting? Why?
- 2) How did you overcome the challenges to understand these concepts?
- 3) What concepts/skills do you still need to develop? Why are they important concepts/skills to you? What impact might they have on your professional career?
- 4) How has the virtual environment affected your learning and your understanding of remote work?
- 5) In what ways will you apply this semester's learning to your career?

Answer:

Step-1: Description

This part will discuss the ideas that I found most challenging and most interesting during the course. The first idea I found more challenging is a literature review because in the starting I faced difficulties in writing literature review even if I read 5 research papers then also the main problem I faced that sorting of important information from various research papers, how to summarize the content and how to make it qualitative writing. The second challenging task was the business case model as I faced difficulties to transform my ideas into a business perspective, from where to get started to make proper business plan and then how to divide budget into resources and how to do proper budget planning to make a proper business model for Machine Learning project. This kind of assignment is a bit challenging for me because this is the first time I did such kind of work during the course and research is time-consuming so sometimes I did not able to conclude the core part of the research part after reading it for 3-4 times.

Step-2: Feelings

Due to the covid-19 pandemic, the style of education has changed suddenly, with the increase of e-learning methods such as lectures and labs are undertaken remotely and on digital media like University Platform (Blackboard), Microsoft Teams, and Zoom. I found online learning can be effective in many ways because most students have opportunities to learn and take classes from their home country as well as able to learn faster as compared to face-to-face lectures, even if any student cannot able to attend lectures then they can learn from recordings anytime. I saved a lot of traveling time because of online lectures. However, there are also some challenges in online learning such as internet issues. I feel that sometimes e-learning affects our health because we spend most of our time on laptop or PC for lectures and assignment work. I think that distance education has both advantages and disadvantages depends on the situation. To illustrate this, online education is the best option for the covid-19 pandemic and it has lots of benefits whereas, in-person learning is a good choice for a normal situation as this leads to more experience by meeting new students, exposure to networking opportunities.

Step-3: Evaluation

There are too many useful things that I learned from the emerging paradigm course during the whole semester which will help me to boost my career. During the coursework, the

fundamentals and workflow of machine learning that I learned in the part of initial findings of machine learning and will implement in software companies. Good understanding of Machine learning concepts in automobility that will continue to grow in future and this knowledge and research I will apply for industrial projects and also for startups. Guest lectures are informative for me that I will be motivated by remembering those sessions. Business case model is very important in IT jobs because in my career job roles have various tasks that are requirement gathering from customer, analysis, design, coding, testing, review, deployment, and the knowledge of business case design will helpful in software project management and planning. Soft skills play a crucial role in teamwork, presentation, and communication at the workplace in my field job roles. Despite how extraordinary technical skills are, I should be a cooperative person and a good team player to utilize them adequately in my career so that all these skills are required. During this course, I feel more confident after doing the practice of research work and debate, understanding the concepts clearly, learned more about how emerging technologies will implement in automobility. As a result, all this learning is only possible because of the emerging paradigm course and the content of this course is life-long learning that is very helpful for my career path.

However, we as a team worked together to overcome the challenges and whenever I did not understand the meaning of content I always tried to reach out to my teammate and we discussed together and finally get some fruitful solutions for problems we faced during team presentation and team assignments. We both contributed equally for assignments work of the course such as the initial finding of Machine learning technology, literature review, debate, business case model, final presentation of ML, group meetings, and so on. Moreover, I also refer to lecture recording for those parts that I did not understand properly, and then with the help of lecture recording of the professor, able to understand proper concepts, what exactly we have to do and what mistakes we did. Then after we improved those mistakes and tried to make it more better as per our best ability. Furthermore, whatever part I did not understand after reading the research paper I always ask my teammate and other friends to help me and explain me in detail so that I can able to understand the core meaning of those content and I also took guidance from Professor and GAs for better understanding of the given task. In addition to this, I took help from my friends and classmates to improve my grammatical errors in writing a literature review paper.

Step-4: Analysis

Having a deep analysis of this coursework, I came to know about significant concepts that I learned a lot of new things from the Emerging Paradigm course and I found myself to be more improved in writing style, presentation, and soft skills. I feel that during the whole course I learned a lot about emerging technologies, research-based learning, and concepts. I improved myself in many parts of soft skills such as communication, presentation, writing ability, and so on. I really liked guest lectures during class time as it is very informative. My contribution to this course is that provides detailed research-based information about machine learning in various fields and is more focused on the automobility sector and also provides the business model with an estimated budget plan. My favorite part of this course is that everyone should learn something new about 9 different emerging technologies from each other with the help of different interactive activities during the course lectures such as question-answer session at the end of the presentation, debate with open ended questions, and many more.

Step-5: Conclusion

How to presenting information in a better and effective way (Presentation skills), how to write content with very few grammatical and sentence structure errors (writing skills), handling conflict professionally are three skills that I still need to develop. These skills are important in my field of computer science because soft skills play a very crucial role in any sector so it needs to be develop by learning, understanding and then implementing it. I feel that presentation and communication skills are important because I used these skills in my daily routine, even at the workplace for customer service (i.e. greeting people) and I want to develop these abilities in a better way as it is useful to me to create a positive impression at job or workplace. Additionally, these skills are essential for a software engineer in any company, because there are different tasks of software engineer such as communicating with customers for requirement gathering and specifications, project presentation in front of the project director and client. Writing skills are very essential for me to improve because it helps me to communicate effectively by email communication in any sector and even in my daily work, assignments and project tasks. The other point is regarding conflict management skills as a conflict arises in teamwork because individuals have different ideas, varied opinions. Sometimes no one can compromise with other team members then in such cases, conflict management is required to handle such situations. This skill is crucial because it strengthens the bonding between team members or coworkers and also provides the best solution for the given problem definition or topic and it will also help me to find an alternative way for any issue. All these three skills have an impact on my professional career that poor presentation skills and writing skills can limit my growth in the career path of computer science. However, these skills can boost my career growth and my confidence if I am able to improve it and apply it to the proper place at the proper time. Developers and engineers have to work in a team so they have different roles, for example, scrum masters have the responsibility to divide tasks among team members according to their abilities, skills, and knowledge and handle the work progress done by all team members so in this role scrum master have the ability to handle conflicts in appropriate way and manage it properly. I believe that soft skills are interpersonal abilities that influence how well I can interact with others and it makes easier to form relationships with team members and it will help to present new ideas and develop these abilities will help me to get success in the workplace.

Step-6: Action Plan

I decided to participate in different activities to improve my skills so from now onwards, I will be going to participate in some technical and community events that sharpen my knowledge which I opt from this coursework. Also, I will develop my problem-solving and critical thinking abilities by taking part in innovation events such as startups, WE-tech opportunities, and many more. Ending with a thank you to Dr. Victoria Abboud for the continuous guidance and sharing his knowledge with us and all the GAs (Amreeth and Rahul) for their support and help.

References:

[1] Apply Gibbs Reflection cycle:

[Getting started with Reflective Practice \(cambridge-community.org.uk\)](https://www.cambridge-community.org.uk/)