SIT719

Security And Privacy Issues In Analytics

Learning Summary Report

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Self-Assessment Details

The following checklists provide an overview of my self-assessment for this unit.

	Pass (D)	Credit (C)	Distinction (B)	High Distinction (A)
Self-Assessment		✓		

Self-Assessment Statement

Declaration

I declare that this portfolio is my individual work. I have not copied from any other student's work or from any other source except where due acknowledgment is made explicitly in the text, nor has any part of this submission been written for me by another person.

Signature: **Sanket Thakur**

Portfolio Overview

This portfolio contains work that focuses on my learnings, growth and achievements in the Unit Learning Outcomes for SIT719 Security and Privacy Issues in Analytics to a credit level.

I started this unit with my favourite part of this trimester, PYTHON. Learning the basics of this coding language was exciting and more rewarding than expected. The learning gradually went on towards Machine Learning, which is a crucial part of the unit. Being from a Non, IT career and educational background, the units were challenging to understand initially. However, eventually, it all came together with the unit faculties and peers' help and my constant perseverance to want to learn. I also learnt about the Laws of Privacy and ethical constraints and how they are applied in Analytics.

The experience and knowledge I have gained in coding and machine learning will be helpful and advantageous in the onset of my data analytics career.

I have learnt a lot from this unit and would be assertive to achieve a 'Credit' grade; the reasoning follows below.

The purpose of this portfolio has been to complete the following tasks

- Task 1.1P
- Task 2.1P
- Task 3.1P
- Task 4.1P
- Task 4.2C
- Task 7.1P
- Task 8.1P
- Task 10.1P
- Task 11.1P

Reflections

The most important things I learnt:

In my view, Machine learning was a critical part of my learnings with this course. I am keen to learn more about supervised and unsupervised ML in WEKA and how it can be applied more diversely. I plan to learn more about ML on other platforms.

I feel I learnt these topics, concepts, and/or tools really well:

I recognised the benefits, use and application of the Python language, and I am confident about implementing it in my future projects. I have been practising scripting with the language and plan to continue persevering it to advance my skills. I was intrigued by the concept of unsupervised machine learning and am interested in pursuing further learning on the subject. It is a powerful tool and will be applicable in diverse fields in the future.

I found the following topics particularly challenging:

Being from a Non, IT background, one of the most challenging topics was Adversarial ML. It is a critical topic in cybersecurity, and hence I spent some quality time focused on understanding the topic further. I read articles and watched YouTube videos on this topic, to enhance my knowledge in this area of study.

I found the following topics particularly interesting:

Thorugh the course of learning different areas of study in this unit, I understood I am most eager to learn data analytics and scripting.

I learnt Python and Weka but did not stop there, went on to learn and practice ML went on to discover the true power of ML-based analytics

I still need to work on the following areas:

I would want to learn more about scripting and different scripting languages. Adversarial ML is another area that I would want to hone my skills in further, so I can use it in my career ahead.
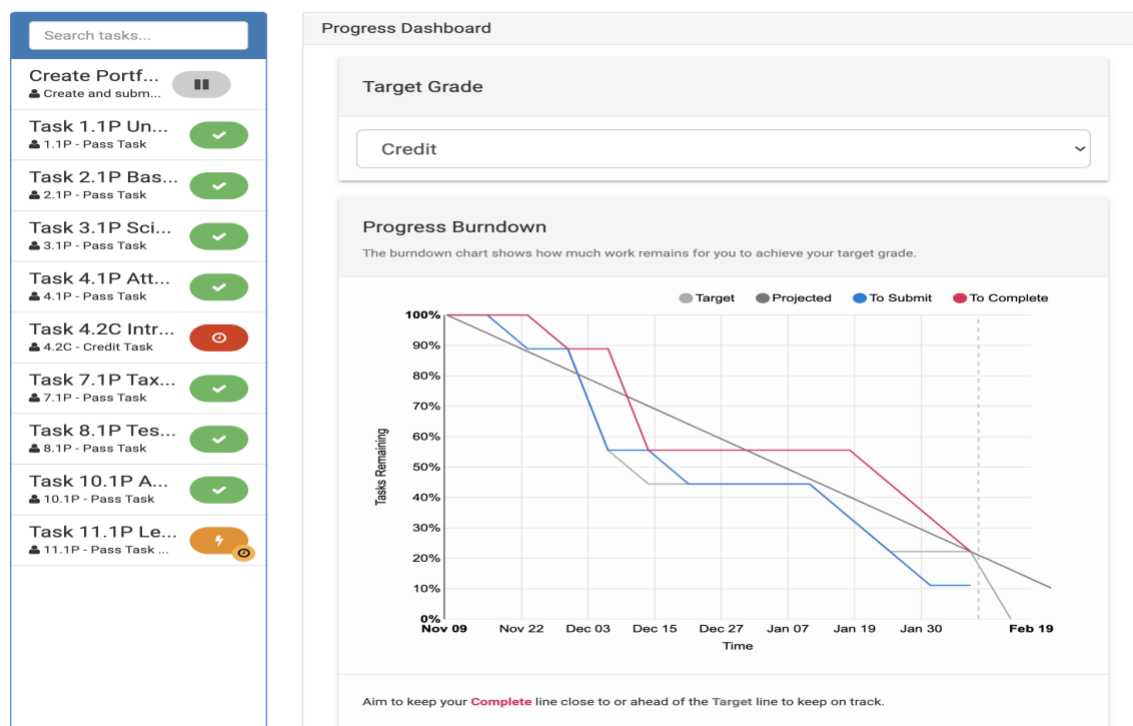
The things that helped me most were:

Workshops helped a lot to learn and solve assignment related queries. Peer discussions were one of the significant sources of additional information on everyday task and subject matter queries.

Youtube proved to be a rich source of knowledge and information through my learning journey. Codebasics, Edureka and AnalyticalVidya were some the other specialised knowledge channels I referred to for a greater understanding of the various topics.

My progress in this unit was …:

Since the beginning of the unit, I was trying to be on the top with submissions and attending workshops. I did have a backlog of submissions just before the Christmas break, due to external factors. However, with assistance from the faculty members and peers, I succeeded to get back on track with the submissions, and the graph has been steady since then.

If I did this unit again, I would do the following things differently:

If I had to do this unit again, I would try and attend the lectures and workshops live as live interaction. I believe it would be a faster and more dependable way to learn in a realtime environment. It is my first experience with the online, and I had some unforeseen hurdles I had to work hard to overcome. However, this has taught me to be motivated and self-reliant. I

have learnt new skills and the power of self-study, research and perseverance of finding solutions to queries.

Important thing I learnt:

I have suffered from a lack of attention to detail through my career as a Chef. My biggest take away from learning coding, scripting and analysing data was the requirement to focus and pay attention to detail.

Being a Chef is hard work and a lot about instinctive cooking and pace of work. However, in scripting, it is all about your knowledge and attention to detail; even a spelling error can cause a flaw or change the code's meaning and thus, interpretations making the task futile.