Software Technology Logbook

# Week 10

It is currently week in 10 and so far, I have completed the following for my Software Technology Capstone Project:

* I started on the EDA in week 9 and have now finished it in week 10. At first, I performed my EDA based on the template report but as time went on and my knowledge on the topic increased, I decided to stray from the template report. I decided to split my EDA into two parts, the general EDA and precise EDA. The general EDA is more like the template report, while the precise EDA consists of me creating graphs and charts to answer the five questions I produced for the report. Since the database I chose is different from the template report, I had to stray from the template report, but I am happy that I did because I have learnt a lot about exploratory data analysis.
* I have started planning the PDA by looking at the different models I could use to train my model. I have looked at the models that were present in the report template, which were the random forest, decision tree, gaussian naïve bayes and support vector models. I haven’t looked any further than this. Although I plan to complete the entire PDA by the end of week 11.

# Week 11

It is now week 11 and my plans to complete the entire PDA have not come to fruition. However, I have progressed in other parts of the assignment:

* I have started documenting the EDA into the report document. I cover the code that I used, how it works and what the resulting outputs are. Documenting the EDA has really enforced my understanding of the EDA and the overall task as now I can understand the graphs with ease, something which I found confusing last week.
* My plans for next week are to implement the desktop tool, I haven’t really planned much more, but I was thinking to maybe use the Tkinter library as I have created GUI programs with it before. I have also started looking at how I am going to implement the web application. I have scoured the internet and stumbled upon a creating a Flask application which renders a HTML file to create the web application. This will probably be how I implement my web application.

# Week 12

It is now week 12 and I have started work on the desktop implementation of the prediction model. I decided to use the Tkinter library to create the GUI as I am familiar with it and experience with the library. The desktop implementation was quite straight forward, and I was able to complete quickly. I also complete the documentation for the PDA and have started documenting that desktop implementation. The PDA documentation was also straightforward as most of it was just explaining what each section of the code does, how it does it and the output. Next week I plan to implement the web application and then use the reaming time to complete the documentation.

# Week 13

It is now week 13 and I have started working on deploying the continent prediction tool as a web application. I am still not entirely sure on how to do it, but I have all of week 13 and am confident that I will complete by the end of the week. For the remaining weeks, I want to spend all my time on the report. I want to add images of the graphs from the EDA, the PDA and also images of the code to better convey what I did and how I did it.