**Weekly Project Progress Report - FIT3164**

Name: Vionnie Tan (ID:30092809)

Semester Week: Week 2

**What has been accomplished over the previous week**

* Met with new supervisor as previous supervisor has left the school, and updated him regarding the assessments we did in the past semester (reviewing our project proposal)
* Started implementation of the version control system for our project by using GitHub – both online and desktop versions and had them synced in our local devices.
* Also, have started looking at possible Kanban boards application such as Trello for our project methodologies approach
* General Catch up with teammates, and also set a fixed meeting day and time for each week – keeping note that we would need to take into account of our meeting minutes and attendees

**What degree of completion was reached in comparison to previous week set goal**

* As last week was our first week coming together after the break, we hadn’t set a strict goal that needed to be accomplished. We simply just informed our new supervisor and discussed about general housekeeping regarding the progress of the project

**Optional: What was the reason for failing to meet the set goal**

* As the goal from last week was met, there wasn’t a failure to accomplish the set goal this week

**What is the goal set for the following week**

* Would be great if we could set our Kanban Boards as well as having a crack at the initial coding parts of our projects, accumulating ideas in the process
* Clarify any doubts with the supervisor

**Optional: What will be undertaken to make up for missed goal**

* Extra meetings accordingly depending on how far behind the set goal our team currently is
* Attend Consultations and ask for help from supervisor

Semester Week: Week 3

**What has been accomplished over the previous week**

* Set up our initial Kanban Boards as we are using Agile Methodologies to manage the workload of our project. We’ve also included the major checkpoints that we can think of right now into the Kanban Board.
* Clarified doubts with our supervisor with regards on where to begin with the project
* Started looking over inspiration over similar projects on the Internet
* Started looking at various templates that we can use for our website
* Also noted down the basic fundamentals with regards to get a website up and running – hosting service, DNS, etc

**What degree of completion was reached in comparison to previous week set goal**

* This week, our team has achieved the goal we wanted for this week (as also mentioned during our weekly meetings) – that is to clarify our doubts with our supervisor as we are having trouble starting the project. We were able to get some insights and found plenty of resources that can help us further with our project

**Optional: What was the reason for failing to meet the set goal**

* As the goal from last week was met, there wasn’t a failure to accomplish the set goal this week

**What is the goal set for the following week**

* Finalise the Kanban Boards – deadlines and to do lists.
* Look up more articles regarding building the predictive model
* Finalise the packages we’ll be using in Python and start with preliminary coding.

**Optional: What will be undertaken to make up for missed goal**

* Extra meetings accordingly depending on how far behind the set goal our team currently is
* Attend Consultations and ask for help from supervisor

Semester Week: Week 4

**What has been accomplished over the previous week**

* Started with initial part of coding & set up Jupyter Notebook
* Wrote preliminary code for data augmentation and normalization of training and testing data
* Prepared DataLoader for predictive model
* Able to visualize some images after normalization and augmentation

**What degree of completion was reached in comparison to previous week set goal**

* In terms of goals set from last week, I have completed all the goals, but the preliminary code associated with data visualization of the cancer cells still has some bugs that I was unable to fix this week. So, that’s something to be concerned about as the progress builds over the following weeks (important to get the bug fixed)

**Optional: What was the reason for failing to meet the set goal**

* I couldn’t fix the bug as mentioned above mainly because of my limited understanding in how the data processing methodologies work as it’s my first time doing it. Didn’t ask teammates for help this week as well and was occupied with other unit’s work

**What is the goal set for the following week**

* Fix bugs & Further debugging
* Build Predictive Model using resnet18
* Determine whether it is needed for us to freeze parameters
* Prepare Interim Presentation (Slides + Recording)

**Optional: What will be undertaken to make up for missed goal**

* Extra meetings accordingly depending on how far behind the set goal our team currently is
* Attend Consultations and ask for help from supervisor

Semester Week: Week 5

**What has been accomplished over the previous week**

* Fixed bug for data visualization (label) w/ help from Elaine
* Tried to create a custom dataset, but failed
* Initialised resnet18 model
* Filled up presentation slides, alongside with draft notes and major key points to be said during the presentation
* Organised recording date for presentation

**What degree of completion was reached in comparison to previous week set goal**

* Most of the tasks were completed, just a bit of delay with regards to the presentation slides as we found out that we were presenting on week 6 and not 5. So, recording has been pushed back to later this week, and updating presentation slides with the progress that we will have by the end of this week
* Code for displaying the label isn’t displaying the right labels
* Additional task: Creating custom dataset, that still has bugs, and can’t be implemented to the visualization part of the code

**Optional: What was the reason for failing to meet the set goal**

* Change in presentation schedule allowed us to pushed back recording time. Occupied with other unit’s work and other responsibilities.
* Lack of understanding in creating custom datasets. Want to discuss further with Elaine over possible alternatives

**What is the goal set for the following week**

* Record presentation
* Testing Model
* Improving accuracy
* Start with PM Report

**Optional: What will be undertaken to make up for missed goal**

* Extra meetings accordingly depending on how far behind the set goal our team currently is
* Attend Consultations and ask for help from supervisor

Semester Week: Week 7

**What has been accomplished over the previous week**

* Minor Code Cleanup (Had so many external sources of code)
* Created Inference Notebook (But still has bugs)
* Better Visualization of Data
* Trained on trial dataset, and full dataset
* Plot Training and Testing Loss
* Show AUC Score and Confusion Matrix
* Saved best model

**What degree of completion was reached in comparison to previous week set goal**

* In terms of what’s present in the Trello Board, I have yet to make a start on the Project Management Report (just had a brief look and idea on what to write, but no progress)
* Code is still very un-enhanced as I’m still figuring out pieces of code that would allow for better accuracy of our model.

**Optional: What was the reason for failing to meet the set goal**

* Poor time management on my end didn’t allow much time for me to train and hence could not improve that much on the model’s accuracy
* Slow Computer so training times took such a long time
* Other unit’s assignments got in the way and I wasn’t able to delegate much time to the project

**What is the goal set for the following week**

* Successful Integration of Model to website
* Better accuracy model
* Project Management Report – Task Delegation and Write-Up

**Optional: What will be undertaken to make up for missed goal**

* Extra meetings accordingly depending on how far behind the set goal our team currently is
* Attend Consultations and ask for help from supervisor

Semester Week: Week 8

**What has been accomplished over the previous week**

* PM Report – Introduction, Project Management Introduction, Resource Allocation, Limitations, Risk Management
* Trained Model on 3 separate devices (2 windows, 1 mac) – had to make sure cuda compatibility is met, etc
* Exported Model, and final integration to website
* Helped Elaine with integration, coordinated with Jack also.

**What degree of completion was reached in comparison to previous week set goal**

* In terms of PM report, on track to finish – only left with a few parts
* In terms of training, trained a few times but not optimal

**Optional: What was the reason for failing to meet the set goal**

* Windows cuda compatibility with PyTorch made it hard, but was able to get it working, and able to train faster, so can train more number of times
* Was not able to start with user guide as so many bugs associated with trying to train with windows that took so much time.

**What is the goal set for the following week**

* Extensive training – improving acc, epoch and batch size
* User guides
* Code cleanup
* Prepare for Demo

**Optional: What will be undertaken to make up for missed goal**

* Extra meetings accordingly depending on how far behind the set goal our team currently is
* Attend Consultations and ask for help from supervisor