Research Project Progress Report Week 8 – SIT723

Student Name:	Tithra Chap
Supervisors' Names:	Assoc Professor Richard Dazeley, Dr Bahareh Nakisa, Dr Sunil Aryal
Project Title:	Emotion Recognition Using Facial Expression
SIT723 Target Grade:	HD
Overleaf Project Link:	https://www.overleaf.com/6618692772zcghdsfqcybf
Project Folder Link:	https://github.com/Tithra/SIT723.git
Worklog:	32hrs 0mins https://github.com/Tithra/SIT723/blob/c8093a262c2e029f7ce643063e0cb50168b6408d/Worklog.xlsx
Project Plan	
Summary of the work planned with your supervisor:	During the discussion, supervisors suggested to change the way of cross validation was used in my experiment. Since the dataset are already stratified originally, they suggested to implement the experiment using standard training and validation set with longer epoch size, i.e., 200.
Summary of the work done:	I have changed the experiment setting as suggested by supervisors. However, the performance is still under expectation. Therefore, I did a search online regarding effective training parameters like batch size, learning rate, and number of epochs. I also explored more dataset such as JAFFE and RAF which also have been used by other papers. I tried the experiment with JAFFE with different way of finetuning. I received excellent result of model performance using JAFFE.

Next steps:	I will work on RAF dataset to receive a variation of results from different multiple datasets to help confirm my model performance. A long way, I keep re-finetuning the model with FER2013 since there are many more ways to do it, although it is very time consuming.
Overall project progress:	Looking back at the backlog, I am perfectly on the track or even ahead of schedule by now. Therefore, I still have time to improve my model in any possible way before wrapping it for a final report.