



Research Project Progress Report

Week 3 – 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:	21 hrs 40 mins https://github.com/Tithra/SIT723/blob/c8093a262c2e029f7ce643063e0cb50168b6408d/Worklog.xlsx
Project Plan	
Summary of the work planned with your supervisor:	As discussed in the meeting, I planned to learn the codes of CrossViT and implement it in google colab. I would need to adjust the codes to accommodate different training datasets in the purpose of comparing the CrossViT in different image categories.
Summary of the work done:	I could manage to download the codes of CrossViT but could not make it available for training purpose because the codes were not designed re-engineering option and they are meant for users to try with some inputs and see how the model outputs. Since CrossViT codes are limited, I switched the plan to learn and implement CBAM codes as it is also a popular attention technique and has remarkable performance in image classification in general. So far, I've managed to use ResNet convolution platform with the CBAM to train Cifar10 dataset.



Next steps:	I will integrate the CBAM model to different image datasets to see its performance in various categories of images, i.e. with and without distractive background object images, with and without distractive background face images. I will also start to collect relevant research papers as part of the literature review drafting. I should be able to list down the flow of literature review by next week.
Overall project progress:	I now have a clearer idea of the project focus and scope. I have set up the base codes which can be further extended to accommodate a diverse testing scenario. So far, I am still on track with the backlogs of project planning.