

PROJECT ACTIVITY LOG

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24. Integrating Machine Learning Feature Detection into Visual SLAM

Day	Date	Description	Result	What To Do
Thursday	19/05/2022	<ul style="list-style-type: none">- Go to CS Department to confirm the CS email	<ul style="list-style-type: none">- CS email confirmed.	<ul style="list-style-type: none">- Access the Blaze
Friday	20/05/2022	<ul style="list-style-type: none">- Access the Blaze- Go to CS Department to ask about Blaze	<ul style="list-style-type: none">- Log in through knuckles.cs.ucl.uk- Access blaze through knuckles	<ul style="list-style-type: none">- Access the Blaze for GPU processing
Saturday	21/05/2022	<ul style="list-style-type: none">- Follow the manual instruction to access the GPU- Install Tensorflow in the filespace (by manual instruction)- Test the Tensorflow computation using the GPU rather than the CPU	<ul style="list-style-type: none">- The output shows the GPU list- Testing Tensorflow is success- Testing GPU is failed	<ul style="list-style-type: none">- Testing the Tensorflow computation using GPU
Sunday	22/05/2022	<ul style="list-style-type: none">- Test the Tensorflow computation in Linux OS- Test the Tensorflow computation in MAC OS	<ul style="list-style-type: none">- The Tensorflow computation shows that it is using the CPU	<ul style="list-style-type: none">- Testing the Tensorflow computation using GPU in another laptop
Monday	23/05/2022	<ul style="list-style-type: none">- Test the Tensorflow computation in the windows version- Find the problem of why the computation always uses the CPU, but it is shown that GPU is available in Blaze	<ul style="list-style-type: none">- The Tensorflow computation still shows that it is using the CPU- The GPU is not used, although it is available on the server	<ul style="list-style-type: none">- Consult to the Technical Support
Tuesday	24/05/2022	<ul style="list-style-type: none">- Go to CS Department to ask about GPU processing using Blaze	<ul style="list-style-type: none">- The CUDA and Tensorflow version is not matched- The environment PATH is not set properly- The Tensorflow computation using GPU processing through Blaze is success	<ul style="list-style-type: none">- Find how to transfer data from server to the home directory
Wednesday	25/05/2022	<ul style="list-style-type: none">- Find how to transfer data from server to local machine	<ul style="list-style-type: none">- Data Transfer from server to local machine success- Use 2 ways: Command in terminal or FileZilla application	<ul style="list-style-type: none">- Run the SuperPoint code with multiple datasets- Check the data space available on server

Day	Date	Description	Result	What To Do
Thursday	26/05/2022	<ul style="list-style-type: none"> - Run the SuperPoint code through Blaze using GPU processing - Check the data space on blaze 	<ul style="list-style-type: none"> - Python 3.6.1 version problem (Resulting import torch : error) - Tensorflow version problem (The python code uses v1 but v2 is installed on Blaze) - Data space is only 10 GB and 70% is already used. 	<ul style="list-style-type: none"> - Consult to the Tehnical Support for updating the Python version - Change the Tensorflow version to 1.14.0 - Ask the Technical Support about the Blaze data space
Friday	27/05/2022	<ul style="list-style-type: none"> - Go to CS Department to ask about Python version and data space - Solve the Tensorflow version problem - Training MagicPoint on Synthetic Shapes 	<ul style="list-style-type: none"> - Python version problem solved -> 3.6.8 - Data space upgraded -> 20 GB - Tensorflow version solved -> 1.14.0 - Model training is running 	<ul style="list-style-type: none"> - Training MagicPoint on Synthetic Shapes
Saturday	28/05/2022	<ul style="list-style-type: none"> - Training MagicPoint on Synthetic Shapes 	<ul style="list-style-type: none"> - Model training in progress 	<ul style="list-style-type: none"> - Training MagicPoint on Synthetic Shapes
Sunday	29/05/2022	<ul style="list-style-type: none"> - Training MagicPoint on Synthetic Shapes 	<ul style="list-style-type: none"> - Model training in progress 	<ul style="list-style-type: none"> - Training MagicPoint on Synthetic Shapes
Monday	30/05/2022	<ul style="list-style-type: none"> - Training MagicPoint on Synthetic Shapes 	<ul style="list-style-type: none"> - (Step 1) Pre-train an initial interest point detector on synthetic data finished (runs, logs/magicpoint_synth, datasets) 	<ul style="list-style-type: none"> - Exporting Detections on KITTI dataset
Tuesday	31/05/2022	<ul style="list-style-type: none"> - Exporting Detections on KITTI dataset 	<ul style="list-style-type: none"> - The required KITTI dataset defined in the code very large (data space not enough) - Datasets not found - Log folders not found 	<ul style="list-style-type: none"> - Exporting Detections on KITTI dataset
Wednesday	01/06/2022	<ul style="list-style-type: none"> - Exporting Detections on KITTI dataset 	<ul style="list-style-type: none"> - (Step 2) Homography Adaptation (HA) to export pseudo ground truth for joint training in progress 	<ul style="list-style-type: none"> - (Step 2) Exporting Detections on KITTI dataset using different pretrained model and set of videos

Day	Date	Description	Result	What To Do
Thursday	02/06/2022	<ul style="list-style-type: none"> - Exporting Detections on KITTI dataset using different pretrained model and set of videos 	<ul style="list-style-type: none"> - (Step 2) Homography Adaptation (HA) in progress 	<ul style="list-style-type: none"> - (Step 2) Exporting Detections on KITTI dataset using different pretrained model and set of videos - Compare the results
Friday	03/06/2022	<ul style="list-style-type: none"> - Exporting Detections on KITTI dataset - Compare the results using different pretrained model result from step 1 and set of videos 	<ul style="list-style-type: none"> - (Step 2) Homography Adaptation (HA) to export pseudo ground truth for joint training finished 	<ul style="list-style-type: none"> - (Step 3) Training SuperPoint on KITTI dataset
Saturday	04/06/2022	<ul style="list-style-type: none"> - Training SuperPoint on KITTI dataset 	<ul style="list-style-type: none"> - Config file setting - Logfolders not found - Datasets not found 	<ul style="list-style-type: none"> - (Step 3) Training SuperPoint on KITTI dataset
Sunday	05/06/2022	<ul style="list-style-type: none"> - Training SuperPoint on KITTI dataset 	<ul style="list-style-type: none"> - Num of samples [val] = 0 -> error - Check Config file setting - Logfolders and Datasets problem solved 	<ul style="list-style-type: none"> - (Step 3) Training SuperPoint on KITTI dataset
Monday	06/06/2022	<ul style="list-style-type: none"> - Training SuperPoint on KITTI dataset 	<ul style="list-style-type: none"> - Config file setting appropriate - Num of samples [val] = 0 -> error 	<ul style="list-style-type: none"> - (Step 3) Training SuperPoint on KITTI dataset
Tuesday	07/06/2022	<ul style="list-style-type: none"> - Exporting Detections on KITTI dataset [validation] - Training SuperPoint on KITTI dataset 	<ul style="list-style-type: none"> - Export KITTI on validation set finished - Training SuperPoint on KITTI dataset in progress 	<ul style="list-style-type: none"> - (Step 3) Training SuperPoint on KITTI dataset - (Step 2) Exporting Detections on TUM dataset
Wednesday	08/06/2022	<ul style="list-style-type: none"> - Exporting Detections on TUM dataset - Using RGB and Depth dataset 	<ul style="list-style-type: none"> - Training SuperPoint on KITTI dataset in progress - (Step 2) Homography Adaptation (HA) to export pseudo ground truth for joint training in progress 	<ul style="list-style-type: none"> - (Step 3) Training SuperPoint on TUM dataset - Define baseline for each step of SuperPoint

Day	Date	Description	Result	What To Do
Thursday	09/06/2022	<ul style="list-style-type: none"> - Training SuperPoint on KITTI dataset 	<ul style="list-style-type: none"> - Training SuperPoint on KITTI dataset finished (Finished at 9 p.m. UK time) 	<ul style="list-style-type: none"> - (Step 2) Exporting Detections on TUM dataset
Friday	10/06/2022	<ul style="list-style-type: none"> - Separate the TUM dataset for train and validation - Make the configs file to run the HA for the TUM dataset 	<ul style="list-style-type: none"> - TUM dataset separated for training and validation - magicpoint_tum_export configs file in progress 	<ul style="list-style-type: none"> - Make the configs file to run the HA for the TUM dataset
Saturday	11/06/2022	<ul style="list-style-type: none"> - Make the configs file to run the HA for the TUM dataset 	<ul style="list-style-type: none"> - magicpoint_tum_export configs file finished 	<ul style="list-style-type: none"> - Make the configs file to run the Joint Training for the TUM dataset
Sunday	12/06/2022	<ul style="list-style-type: none"> - Make the configs file to run the Joint Training for the TUM dataset 	<ul style="list-style-type: none"> - superpoint_tum_train_heatmap configs file in progress 	<ul style="list-style-type: none"> - Make the configs file to run the Joint Training for the TUM dataset
Monday	13/06/2022	<ul style="list-style-type: none"> - Make the configs file to run the Joint Training for the TUM dataset 	<ul style="list-style-type: none"> - superpoint_tum_train_heatmap configs file finished 	<ul style="list-style-type: none"> - Define baseline for each step of SuperPoint
Tuesday	14/06/2022	<ul style="list-style-type: none"> - Define baseline for each step of SuperPoint 	<ul style="list-style-type: none"> - Evaluate the metrics for each step in progress 	<ul style="list-style-type: none"> - Define baseline for each step of SuperPoint
Wednesday	15/06/2022	<ul style="list-style-type: none"> - Testing both of the configs file to run the Superpoint using the TUM dataset - Define baseline for each step of SuperPoint 	<ul style="list-style-type: none"> - Configs file to run the Superpoint using the TUM dataset is currently testing - Evaluate the metrics for each step in progress 	<ul style="list-style-type: none"> - Run the evaluation metrics testing file - Define baseline for each step of SuperPoint - Testing both of the configs file - Continue the training with the TUM dataset

Day	Date	Description	Result	What To Do
Thursday	16/06/2022	<ul style="list-style-type: none"> - Edit the config files for evaluating the metrics on HPatches dataset 	<ul style="list-style-type: none"> - magicpoint_repeatability_heatmap.yaml in progress 	<ul style="list-style-type: none"> - Modify the config file for evaluating the metrics on HPatches dataset
Friday	17/06/2022	<ul style="list-style-type: none"> - Edit the config files for evaluating the metrics on HPatches dataset 	<ul style="list-style-type: none"> - magicpoint_repeatability_heatmap.yaml in progress 	<ul style="list-style-type: none"> - Modify the config file for evaluating the metrics on HPatches dataset
Saturday	18/06/2022	<ul style="list-style-type: none"> - Edit the config files for evaluating the metrics on HPatches dataset - Download HPatches dataset - Put the HPatches dataset into the server 	<ul style="list-style-type: none"> - magicpoint_repeatability_heatmap.yaml finished - HPatches dataset ready 	<ul style="list-style-type: none"> - Export the metrics on HPatches dataset
Sunday	19/06/2022	<ul style="list-style-type: none"> - Export keypoints, descriptors, matching on HPatches dataset - using export.py 	<ul style="list-style-type: none"> - Keypoints, descriptors and matching successfully exported in numpy array file 	<ul style="list-style-type: none"> - Evaluate homography estimation / repeatability / matching scores
Monday	20/06/2022	<ul style="list-style-type: none"> - Evaluate homography estimation / repeatability / matching scores on HPatches dataset - using evaluation.py - using pretrained model provided 	<ul style="list-style-type: none"> - Evaluate the metrics on HPatches finished 	<ul style="list-style-type: none"> - Evaluate homography estimation / repeatability / matching scores using another pretrained model
Tuesday	21/06/2022	<ul style="list-style-type: none"> - Evaluate homography estimation / repeatability / matching scores on HPatches dataset - using pretrained model done 	<ul style="list-style-type: none"> - Evaluate the metrics on HPatches finished 	<ul style="list-style-type: none"> - Check the exported and evaluated metrics result
Wednesday	22/06/2022	<ul style="list-style-type: none"> - Check the exported and evaluated metrics result - Compare the results between different pretrained model 	<ul style="list-style-type: none"> - Check each metrics evaluation result in progress - Compare the results between different pretrained model in progress 	<ul style="list-style-type: none"> - Check each metrics evaluation result - Compare the results between different pretrained model - Run the Superpoint on the TUM dataset

Day	Date	Description	Result	What To Do
Thursday	23/06/2022	<ul style="list-style-type: none"> - Check metrics evaluation result using COCO pretrained model and KITTI_helmi pretrained model done in the previous step. 	<ul style="list-style-type: none"> - Evaluate the metrics on HPatches finished using COCO and KITTI_helmi pretrained model 	<ul style="list-style-type: none"> - Evaluate homography estimation / repeatability / matching scores using KITTI pretrained model
Friday	24/06/2022	<ul style="list-style-type: none"> - Evaluate homography estimation / repeatability / matching scores on HPatches dataset - using KITTI pretrained model 	<ul style="list-style-type: none"> - Evaluate the metrics on HPatches finished using KITTI pretrained model 	<ul style="list-style-type: none"> - Compare the results between different pretrained model
Saturday	25/06/2022	<ul style="list-style-type: none"> - Check 3 metrics evaluation result from different pretrained model - Compare the results 	<ul style="list-style-type: none"> - COCO: nn mean AP: 0.7714677789324594 matching score: 0.4491385750719317 - KITTI: nn mean AP: 0.7568183122053906 matching score: 0.4383227453901716 - KITTI_helmi: nn mean AP: 0.2258599420358754 matching score:0.060602221596776196 	<ul style="list-style-type: none"> - Project Introduction Report
Sunday	26/06/2022	<ul style="list-style-type: none"> - Project Report : Introduction 	<ul style="list-style-type: none"> - Project Report : Introduction in progress 	<ul style="list-style-type: none"> - Project Introduction Report
Monday	27/06/2022	<ul style="list-style-type: none"> - Project Report : Introduction 	<ul style="list-style-type: none"> - Project Report : Introduction in progress 	<ul style="list-style-type: none"> - Project Introduction Report
Tuesday	28/06/2022	<ul style="list-style-type: none"> - Project Report : Introduction 	<ul style="list-style-type: none"> - Project Report : Introduction in progress 	<ul style="list-style-type: none"> - Project Introduction Report
Wednesday	29/06/2022	<ul style="list-style-type: none"> - Project Report : Introduction 	<ul style="list-style-type: none"> - Project Report : Introduction in progress 	<ul style="list-style-type: none"> - Run the Superpoint on the TUM dataset - Check how superpoint works when run on consecutive frame (TUM)

Day	Date	Description	Result	What To Do
Thursday	30/06/2022	- Project Report : Introduction	- Project Report : Introduction in progress	- Project Report : Introduction
Friday	01/07/2022	- Project Report : Introduction - Install the dependencies for running the SuperPoint Weights File - Run the Superpoint on the TUM dataset	- Project Report : Introduction finished - Run the demo on TUM dataset in progress	- Run the Superpoint on the TUM dataset
Saturday	02/07/2022	- Run the demo on TUM dataset - using pretrained model from MagicLeap (superpoint_v1.pth)	- Run the demo on TUM dataset in progress	- Run the Superpoint on the TUM dataset
Sunday	03/07/2022	- Run the demo on TUM dataset - using pretrained model from MagicLeap (superpoint_v1.pth)	- Run the demo on TUM dataset finished	- Run the Superpoint on the KITTI dataset
Monday	04/07/2022	- Run the demo on KITTI dataset - using pretrained model from MagicLeap (superpoint_v1.pth)	- Run the demo on KITTI dataset finished	- Edit the code to extract the pretrained weights
Tuesday	05/07/2022	- Edit the code to extract the pretrained weights - using superpoint_kitti.pth.tar	- Edit the code to extract the pretrained weights in progress	- Edit the code to extract the pretrained weights
Wednesday	06/07/2022	- Edit the code to extract the pretrained weights in progress	- Edit the code to extract the pretrained weights in progress	- Modify demo_superpoint code to change the structure of SuperPoint network - Compare between SuperPoint and ORB-SLAM run on KITTI and TUM dataset

Day	Date	Description	Result	What To Do
Thursday	07/07/2022	- Modify demo_superpoint code to change the structure of SuperPoint network	- New demo_superpoint code in progress	- Modify demo_superpoint code to change the structure of SuperPoint network
Friday	08/07/2022	- Modify demo_superpoint code	- New demo_superpoint code in progress	- Modify demo_superpoint code to change the structure of SuperPoint network
Saturday	09/07/2022	- Modify demo_superpoint code	- New demo_superpoint code in progress	- Modify demo_superpoint code to change the structure of SuperPoint network
Sunday	10/07/2022	- Project Report : Related Work - Modify demo_superpoint code	- Project Report : Related Work in progress - New demo_superpoint code in progress	- Modify demo_superpoint code to change the structure of SuperPoint network
Monday	11/07/2022	- Project Report : Related Work - Modify demo_superpoint code	- Project Report : Related Work in progress - New demo_superpoint code in progress	- Modify demo_superpoint code to change the structure of SuperPoint network
Tuesday	12/07/2022	- Project Report : Related Work - Modify demo_superpoint code	- Project Report : Related Work in progress - New demo_superpoint code in progress	- Modify demo_superpoint code to change the structure of SuperPoint network
Wednesday	13/07/2022	- Project Report : Related Work - Modify demo_superpoint code	- Project Report : Related Work in progress - New demo_superpoint code in progress - Result : done for changing the network structure. - Problem: new code worked for best-pretrained model provided; however not work for my own pretrained model. This problem will try to be solved in the next week.	- Modify demo_superpoint code to change the structure of SuperPoint network - Compare between SuperPoint and ORB-SLAM run on KITTI and TUM dataset

Day	Date	Description	Result	What To Do
Thursday	14/07/2022	<ul style="list-style-type: none"> - Project Report : Related Work - Modify demo_superpoint code to change the structure of SuperPoint network - Training SuperPoint (step 3) with different configurations 	<ul style="list-style-type: none"> - Project Report : Related Work in progress - New demo_superpoint code in progress - Training SuperPoint (step 3) in progress 	<ul style="list-style-type: none"> - Modify demo_superpoint code to change the structure of SuperPoint network
Friday	15/07/2022	<ul style="list-style-type: none"> - Project Report : Related Work - Modify demo_superpoint code - Training SuperPoint (step 3) 	<ul style="list-style-type: none"> - Project Report : Related Work in progress - New demo_superpoint code in progress - Training SuperPoint (step 3) in progress 	<ul style="list-style-type: none"> - Modify demo_superpoint code to change the structure of SuperPoint network
Saturday	16/07/2022	<ul style="list-style-type: none"> - Project Report : Related Work - Modify demo_superpoint code - Training SuperPoint (step 3) 	<ul style="list-style-type: none"> - Project Report : Related Work in progress - New demo_superpoint code in progress - Training SuperPoint (step 3) finished 	<ul style="list-style-type: none"> - Modify demo_superpoint code to change the structure of SuperPoint network
Sunday	17/07/2022	<ul style="list-style-type: none"> - Project Report : Related Work - Modify demo_superpoint code 	<ul style="list-style-type: none"> - Project Report : Related Work in progress - New demo_superpoint code in progress 	<ul style="list-style-type: none"> - Modify demo_superpoint code to change the structure of SuperPoint network
Monday	18/07/2022	<ul style="list-style-type: none"> - Modify demo_superpoint code 	<ul style="list-style-type: none"> - New demo_superpoint code in progress 	<ul style="list-style-type: none"> - Modify demo_superpoint code to change the structure of SuperPoint network
Tuesday	19/07/2022	<ul style="list-style-type: none"> - Modify demo_superpoint code 	<ul style="list-style-type: none"> - New demo_superpoint code in progress 	<ul style="list-style-type: none"> - Modify demo_superpoint code to change the structure of SuperPoint network
Wednesday	20/07/2022	<ul style="list-style-type: none"> - Project Report : Related Work - Modify demo_superpoint code 	<ul style="list-style-type: none"> - Project Report : Related Work in progress - New demo_superpoint code in progress 	<ul style="list-style-type: none"> - Modify demo_superpoint code to change the structure of SuperPoint network

Day	Date	Description	Result	What To Do
Thursday	21/07/2022	- Modify demo_superpoint code to change the structure of SuperPoint network	- Confirm the configuration file setting on the Joint Training SuperPoint (step 3) : correct network setting	- Modify demo_superpoint code to change the structure of SuperPoint network
Friday	22/07/2022	- Modify demo_superpoint code	- Run demo_superpoint code using my own pretrained model on the training dataset: error	- Modify demo_superpoint code
Saturday	23/07/2022	- Modify demo_superpoint code	- Check the output point tracks coding part	- Modify demo_superpoint code
Sunday	24/07/2022	- Modify demo_superpoint code	- Check the point detection and point confidence heatmap coding part	- Modify demo_superpoint code
Monday	25/07/2022	- Modify demo_superpoint code	- Debug raw point confidences code part	- Modify demo_superpoint code
Tuesday	26/07/2022	- Modify demo_superpoint code	- Debug raw point confidences code part	- Modify demo_superpoint code
Wednesday	27/07/2022	- Modify demo_superpoint code	<ul style="list-style-type: none"> - New demo_superpoint code in progress - Result: without extra output point confidence heatmap, my own pretrained model can be used to run the SuperPoint on an image sequence using the demo_superpoint code - Next: debug the code to show the extra output point confidence heatmap 	<ul style="list-style-type: none"> - Finish demo_superpoint code - Compare between SuperPoint and ORB-SLAM run on KITTI and TUM dataset

Day	Date	Description	Result	What To Do
Thursday	28/07/2022	- Loss function plotting using TensorBoard	- Loss function plot in progress	- Loss function plotting
Friday	29/07/2022	- Loss function plotting	- Loss function plot in progress	- Modify demo_superpoint code
Saturday	30/07/2022	- Modify demo_superpoint code	- Debug the point confidence heatmap	- Modify demo_superpoint code
Sunday	31/07/2022	- Loss function plotting - Modify demo_superpoint code	- Loss function plot in progress - Debug the full resolution point confidence heatmap	- Modify demo_superpoint code
Monday	01/08/2022	- Modify demo_superpoint code	- Numpy heatmap of point confidences code finished - Demo_superpoint code finished	- Testing the parameter of demo_superpoint code
Tuesday	02/08/2022	- Loss function plotting - Run SuperPoint on TUM dataset using different pretrained models	- Loss function plot in progress - Comparison between different pretrained models finished	- Testing the threshold of demo_superpoint code
Wednesday	03/08/2022	- Loss function plotting using TensorBoard - Testing the threshold of demo_superpoint code	- Loss function plot finished - Run the SuperPoint on TUM dataset with different threshold and other parameters	- Project Report

Day	Date	Description	Result	What To Do
Thursday	04/08/2022	- Finalize demo_superpoint code	- demo_superpoint code finished	- Project Report
Friday	05/08/2022	- Run SuperPoint on TUM dataset using different pretrained models and parameters - Save each output to different folders for project report	- Collecting output data finished	- Project Report
Saturday	06/08/2022	- Researching how to write a dissertation report properly	- Project Report in progress	- Project Report
Sunday	07/08/2022	- Researching how to write a dissertation report	- Project Report in progress	- Project Report
Monday	08/08/2022	- Project Report : Introduction	- Project Report : Introduction in progress	- Project Report
Tuesday	09/08/2022	- Project Report : Related Work	- Project Report : Related Work in progress	- Project Report
Wednesday	10/08/2022	- Project Report : Related Work	- Project Report : Related Work in progress Target Project Report Draft : 28 August	- Project Report

Day	Date	Description	Result	What To Do
Thursday	11/08/2022	- Project Report : Related Work	- Project Report in progress	- Project Report
Friday	12/08/2022	- Project Report : Related Work	- Project Report in progress	- Project Report
Saturday	13/08/2022	- Project Report : Methodology	- Project Report in progress	- Project Report
Sunday	14/08/2022	- Project Report : Methodology	- Project Report in progress	- Project Report
Monday	15/08/2022	- Project Report : Methodology	- Project Report in progress	- Project Report
Tuesday	16/08/2022	- Project Report : Introduction	- Project Report in progress	- Project Report
Wednesday	17/08/2022	- Project Report : Introduction	- Project Report in progress	- Project Report

Day	Date	Description	Result	What To Do
Thursday	18/08/2022	- Chapter 4 Data Description	- Chapter 1 Introduction : feedback	- Project Report
Friday	19/08/2022	- Chapter 4 Data Description	- Chapter 4 Data Description in progress	- Project Report
Saturday	20/08/2022	- Chapter 3 SuperPoint Architecture	- Chapter 3 SuperPoint in progress	- Project Report
Sunday	21/08/2022	- Chapter 3 SuperPoint Architecture	- Chapter 3 SuperPoint in progress	- Project Report
Monday	22/08/2022	- Chapter 3 SuperPoint Architecture	- Chapter 3 SuperPoint in progress	- Project Report
Tuesday	23/08/2022	- Chapter 2 Related Work	- Chapter 2 Related Work in progress	- Project Report
Wednesday	24/08/2022	- Chapter 2 Related Work	- Chapter 2 Related Work : draft	- Project Report

Day	Date	Description	Result	What To Do
Thursday	25/08/2022	- Chapter 3 SuperPoint	- Chapter 3 SuperPoint in progress	- Project Report
Friday	26/08/2022	- Chapter 4 Data Description	- Chapter 4 Data Description in progress	- Project Report
Saturday	27/08/2022	- Chapter 5 Experiments	- Chapter 5 Experiments in progress	- Project Report
Sunday	28/08/2022	- Chapter 5 Experiments	- Chapter 5 Experiments in progress	- Project Report
Monday	29/08/2022	- Chapter 6 Results	- Chapter 6 Results in progress	- Project Report
Tuesday	30/08/2022	- Chapter 6 Results	- Chapter 6 Results in progress	- Project Report
Wednesday	31/08/2022	- Chapter 7 Conclusion	- Chapter 7 Conclusion in progress	- Project Report

Day	Date	Description	Result	What To Do
Thursday	01/09/2022	- Chapter 1 Introduction	- Chapter 1 Introduction : draft	- Project Report
Friday	02/09/2022	- Chapter 2 Related Work	- Chapter 2 Related Work : draft	- Project Report
Saturday	03/09/2022	- Chapter 3 SuperPoint Architecture	- Chapter 3 SuperPoint Architecture : draft	- Project Report
Sunday	04/09/2022	- Chapter 4 Data Description	- Chapter 4 Data Description : draft	- Project Report
Monday	05/09/2022	- Chapter 5 Experiments	- Chapter 5 Experiments : draft	- Project Report
Tuesday	06/09/2022	- Chapter 6 Results	- Chapter 6 Results : draft	- Project Report
Wednesday	07/09/2022 - 21/09/2022	- Chapter 7 Conclusion	- Chapter 7 Conclusion : draft Project Report Draft Finished	- Project Report

Day	Date	Description	Result	What To Do
Thursday	22/09/2022	<ul style="list-style-type: none"> - Project Report Revision - Revise the SuperPoint Code 	<ul style="list-style-type: none"> - Project Report Draft Revision - SuperPoint Code for Submission 	<ul style="list-style-type: none"> - Project Report
Friday	23/09/2022	<ul style="list-style-type: none"> - Project Report Revision - Revise the SuperPoint Code 	<ul style="list-style-type: none"> - Project Report Draft Revision - SuperPoint Code for Submission 	<ul style="list-style-type: none"> - Project Report
Saturday	24/09/2022	<ul style="list-style-type: none"> - Project Report Review - Revise the SuperPoint Code 	<ul style="list-style-type: none"> - Project Report Draft Revision - SuperPoint Code for Submission 	<ul style="list-style-type: none"> - Project Report
Sunday	25/09/2022	<ul style="list-style-type: none"> - Project Report Review - Revise the SuperPoint Code 	<ul style="list-style-type: none"> - Project Report Finished - SuperPoint Code for Submission 	<ul style="list-style-type: none"> - Project Report
Monday	26/09/2022	<ul style="list-style-type: none"> - Project Report Submission - Code Submission 	<ul style="list-style-type: none"> - COMP0132 Finished 	<ul style="list-style-type: none"> - Graduation