**PROJECT TIMELINE**

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**24. Integrating Machine Learning Feature Detection into Visual SLAM**

| Meeting | Date | Task | Progress |
|---|---|---|---|
| 1 | 23/02/2022 | General Project Description | √ |
| 2 | 16/03/2022 | Review Paper | √ |
| 3 | 30/03/2022 | Review Paper | √ |
| 4 | 13/04/2022 | 1. Review Paper<br>2. Learning SuperPoint ML | √ |
| 5 | 04/05/2022 | 1. Project Plan draft<br>2. Run SuperPoint code<br>3. ORB-SLAM installation | √ |
| 6 | 18/05/2022 | Project Plan submission | √ |
| 7 | 25/05/2022 | 1. Access Blaze<br>2. Run SuperPoint code with GPU | √ |
| 8 | 01/06/2022 | 1. Run SuperPoint code with the KITTI dataset<br>2. Learning the SuperPoint approach steps | √ |
| 9 | 08/06/2022 | 1. Continue the training with the KITTI dataset<br>2. Run the SuperPoint code with the TUM dataset | √ |
| 10 | 15/06/2022 | 1. Run SuperPoint code with the TUM dataset<br>2. Define baseline for each step of SuperPoint | √ |
| 11 | 22/06/2022 | 1. Continue the training with the TUM dataset<br>2. Define baseline for each step of SuperPoint | √ |
| 12 | 29/06/2022 | 1. Check each metrics evaluation result<br>2. Compare the results between different pretrained models<br>3. Project Report : Introduction | √ |

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| 13 | 06/07/2022 | 1. Project Report : Introduction<br>2. Run the SuperPoint on the TUM dataset | √ |
| 14 | 13/07/2022 | 1. Project Report : Related Work<br>2. Modify demo_superpoint code to change the structure of SuperPoint network | √ |
| 15 | 20/07/2022 | 1. Project Report : Related Work<br>2. Modify demo_superpoint code to change the structure of SuperPoint network | √ |
| 16 | 27/07/2022 | Modify demo_superpoint code to change the structure of SuperPoint network | √ |
| 17 | 03/08/2022 | 1. Loss function, precision, and recall plotting using Tensor Board<br>2. Finish demo_superpoint code<br>3. Run SuperPoint on TUM dataset using different pretrained models | √ |
| 18 | 10/08/2022 | 1. Run SuperPoint on TUM dataset using different pretrained models<br>2. Project Report | √ |
| 19 | 17/08/2022 | Project Report | √ |
| 20 | 24/08/2022 | Project Report | √ |
| 21 | 31/08/2022 | Project Report Draft | √ |
| 22 | 07/09/2022 | Project Report Revision | √ |
| 23 | 26/09/2022 | Dissertation Submission | √ |