

Weekly Report-3

CSE-541 (Computer Vision)

ProjectNo_2

GroupNo_5



Ahmedabad
University

Project Title

“Road Markings Detection and Road Measurement in Aerial Imagery”

Date of Submission: 17-02-2024

Group Details:

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|---------------|----------------|-------------|-------------|-----------|
| Enrolment No. | AU2140001 | AU2140017 | AU2140032 | AU2140149 |
| Student Name | Adnan Kadiwala | Vandit Shah | Dhruv Hingu | Het Patel |

Presentation:

- Created a presentation to explain our problem statement and what will be our approach to the problem statement.
- Presentations consist of the information related to our problem statement, base paper, our approach and dataset.

Dataset:

- Dataset consists of a total of 10 square kilometers of urban, suburban and rural areas of China.
- Dataset consists of around 20000 images.
- The dataset was collected from the DJI Phantom 4 Pro system.
- The link to the Dataset is <https://uavid.nl/>

Examples from Dataset:



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Next Steps:

We have decided to work with this paper whose dataset is available so that we can understand what is done with the dataset given.

References :

- Guan, H., Lei, X., Yu, Y., Zhao, H., Peng, D., Marcato, J., & Li, J. (2022). Road marking extraction in UAV imagery using attentive capsule feature pyramid network. International Journal of Applied Earth Observation and Geoinformation, 107, 102677.

<https://doi.org/10.1016/j.jag.2022.102677>