

Project Report

TDT4265 Computer Vision and Deep Learning

Sivert Utne

March 24, 2022

Contents

| | | |
|----------|--|----------|
| 2 | Model Creation | 1 |
| 2.1 | Creating the first Baseline | 1 |
| 2.2 | Augmenting the Data | 1 |
| 2.3 | Implementing RetinaNet | 1 |
| 2.4 | Using knowledge from the Exploration | 1 |
| 2.5 | Extending the dataset | 1 |
| 3 | Discussion and Evaluation | 2 |
| 3.2 | Discussion and Qualitative Analysis | 2 |
| 3.3 | Final Discussion | 2 |
| 4 | Going Beyond | 3 |
| 4.2 | Explaining the Model with CAM | 3 |

2 Model Creation

- 2.1 Creating the first Baseline
- 2.2 Augmenting the Data
- 2.3 Implementing RetinaNet
- 2.4 Using knowledge from the Exploration
- 2.5 Extending the dataset

3 Discussion and Evaluation

3.2 Discussion and Qualitative Analysis

3.3 Final Discussion

4 Going Beyond

4.2 Explaining the Model with CAM