



City Safety

Majid Ezzati

Luís Rita

Ricky Nathvani



Timeline

April

Test Algorithms & Datasets

TensorFlow API

Cityscapes

COCO

June

Data Visualization

Correlation Matrices

Histograms

LSOA Maps

August

Background Reading

CNN

Object Detection

Image Segmentation

Imperial HPC

May

Output Data

Select Features

Safety Indices

July

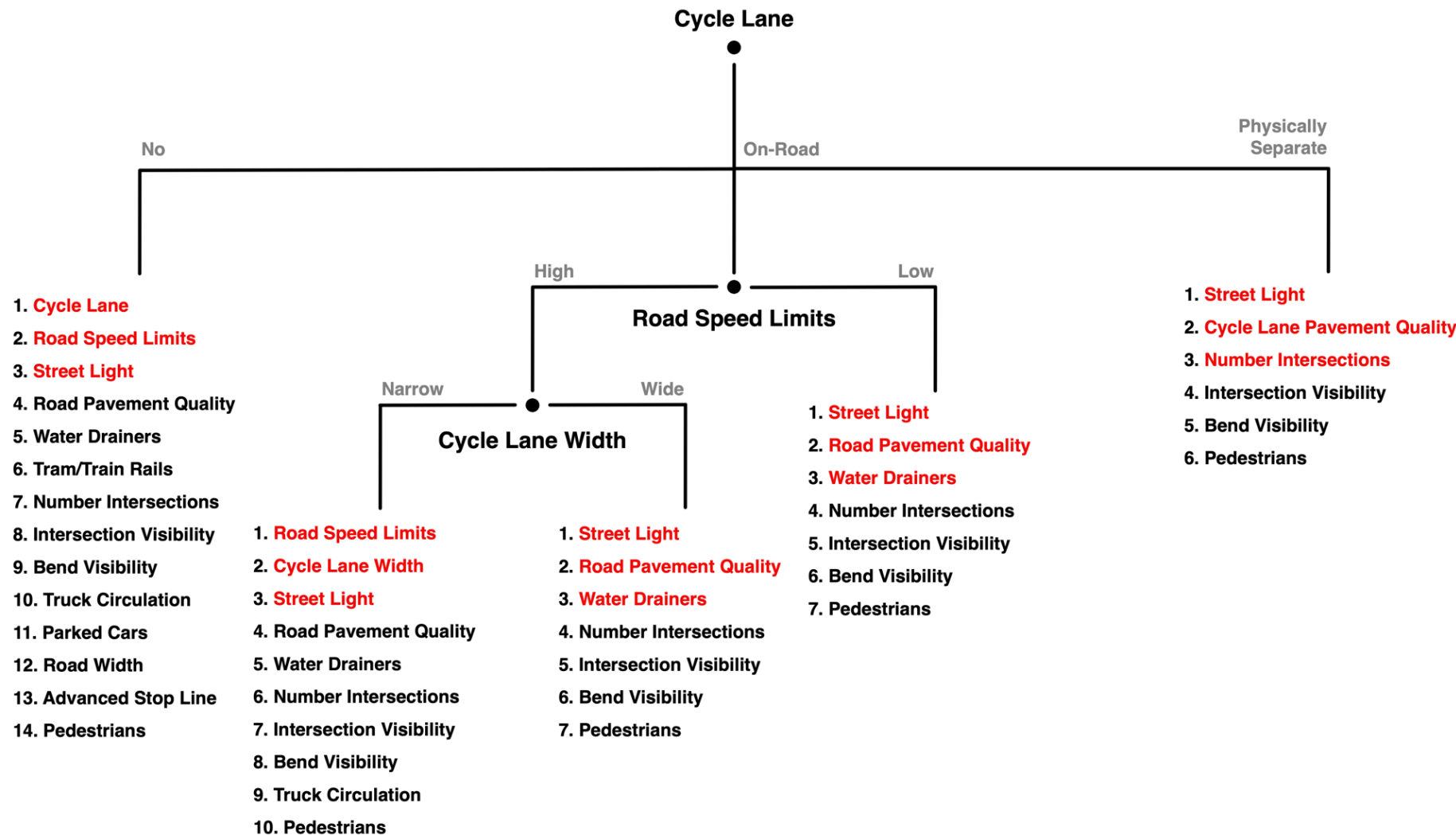
Write-Up

30 – Pages Article

Oral Presentation

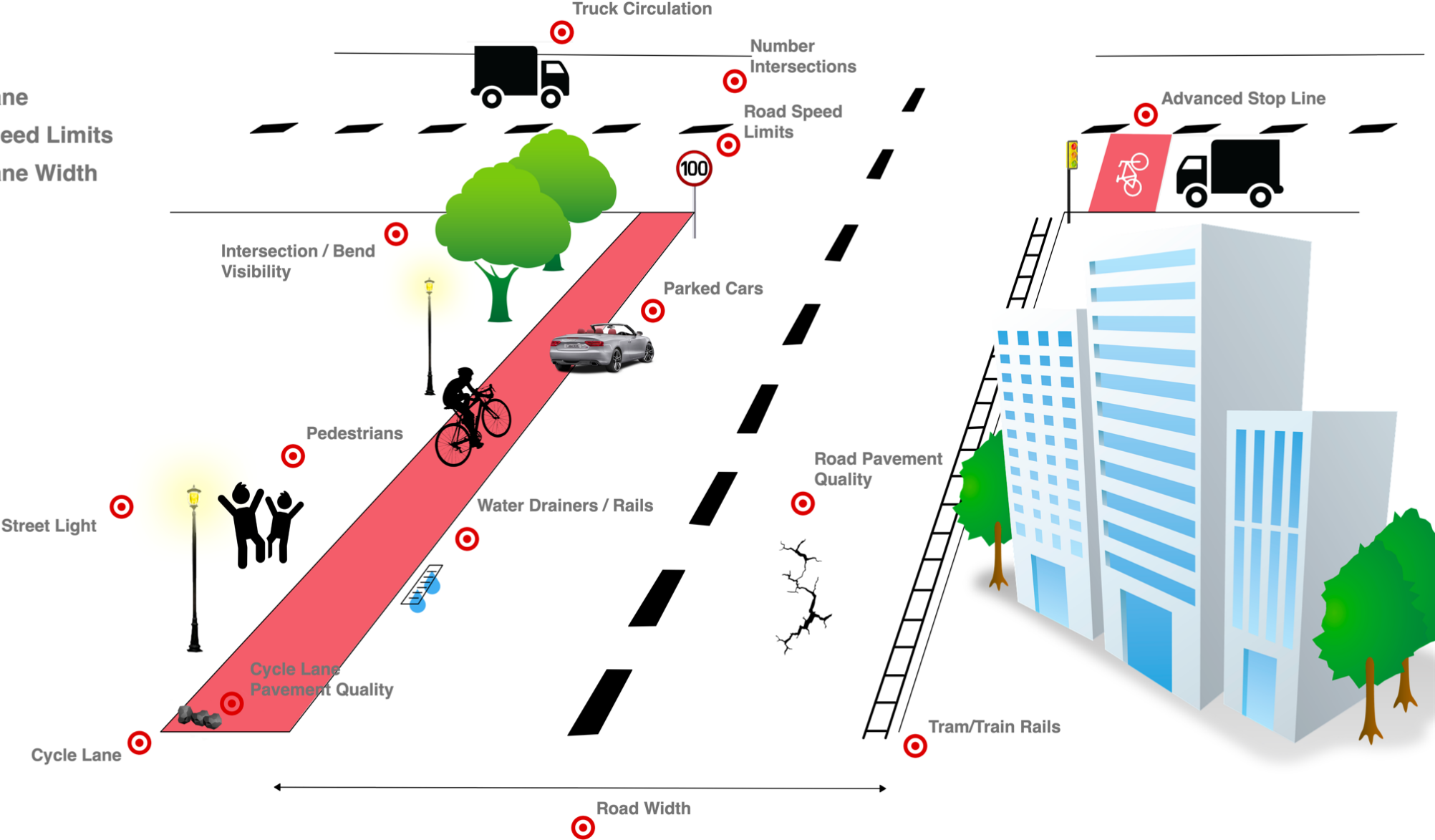


Risk Factors



Top 3

Cycle Lane
Road Speed Limits
Cycle Lane Width



Machine Learning

Risk Factor	Street View Imagery Suitability	References
Cycle Lane	★★★★★	[4] [5]
Street Light	★★★★★	[6]
Pedestrians (e.g.: children near schools)	★	[7]
Water Drainers	★	[7]
Tram/Train Rails	★★★★★	[8] [9]
Number Intersections	★★★★★	[7]
Intersections Visibility	★★★★	[5]
Bends Visibility	★★★★	[5]
Road Speed Limits	★★★★★	[4] [7]
Parked Cars	★★★	[5] [8] [7]
Lorries and other Large Vehicles	★	[8] [7]
Road Width	★	[8]
Pavement Quality (Pits, Trenches, Tree Root Encroachments)	★	[5] [7] [9]
Advanced Stop Line	★	[8] [7]

