

IRoS@H : Intelligent Road Safety Hub

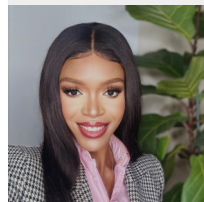
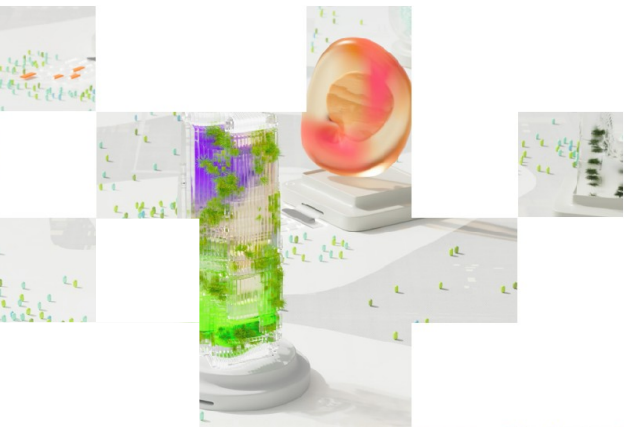


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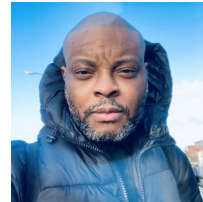
Google Cloud



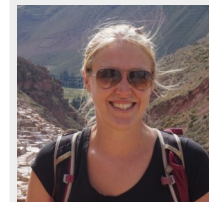
Team Fantastic 4



Ada
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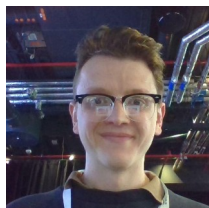
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Problem statement : How can we reduce accidents and improve road safety?



Solution

Intelligent Road safety Hub

STATS
19

+

Augmented data :

- Google Maps satellite and street view Images
- Risk scoring (based on volume+severity)

Ways to interact

- Interactive heatmap
- Interactive chatbot

Data applications

- Trained ML model to predict safety score based on google maps satellite images

Interactive Content and Engaging Examples



Heat maps of accidents

- Chat bot to interrogate the dataset.
- Generated image analysis :
Road Design:
Complex Intersection: The intersection appears to have multiple lanes of traffic flowing in different directions, potentially leading to confusion and misjudgments.
Blind Spots: ...



Example of data application: image classification

Trained **machine learning** model to **score road safety using satellite images** from google maps - could be used to **extract features that contribute to accidents**



Severity 80/100



Severity 70/100

Thank you



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Google Cloud

