



Systems Interaction

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Proposed problem

Identifying and interacting with relevant optical objects from a webpage



How did we approach it?

We took the problem apart and divided it in smaller, simpler problems.



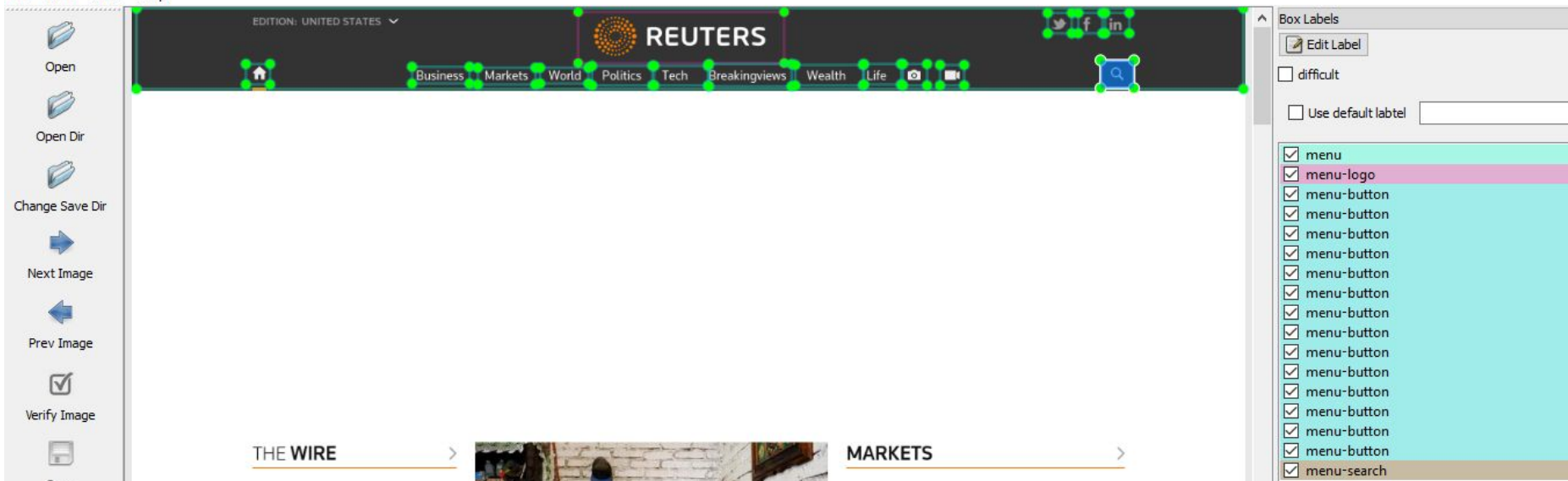
The Dataset

Given the specifics of the task and the novelty of the ML domain, finding a dataset was impossible. So we resorted to making our own.



Adnotation

- Model
- labelling
- Post-processing



GANs





Processing the data

- Google Object Detection API
- Running training locally and on Google Colab
- Testing on SSD and Faster R-CNN



Faster R-CNN



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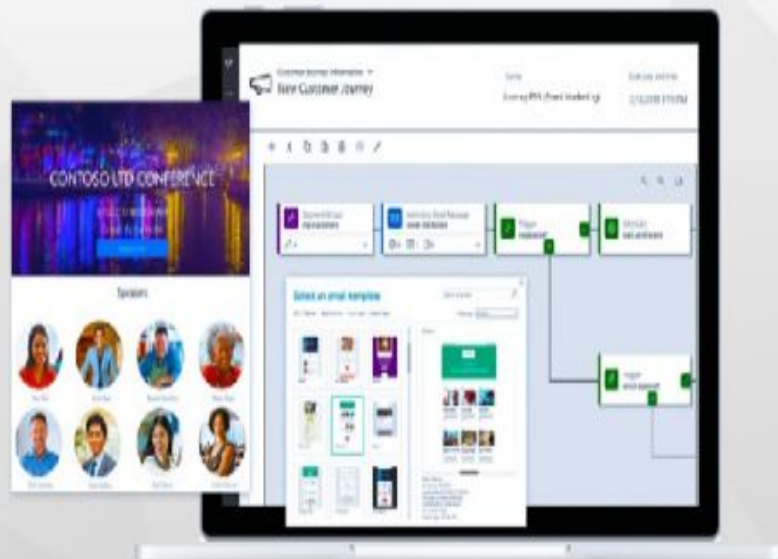


SSD

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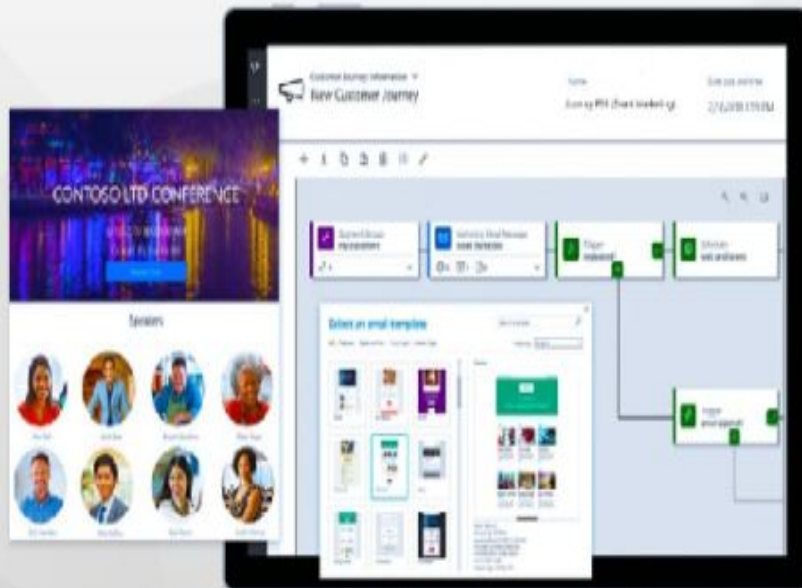
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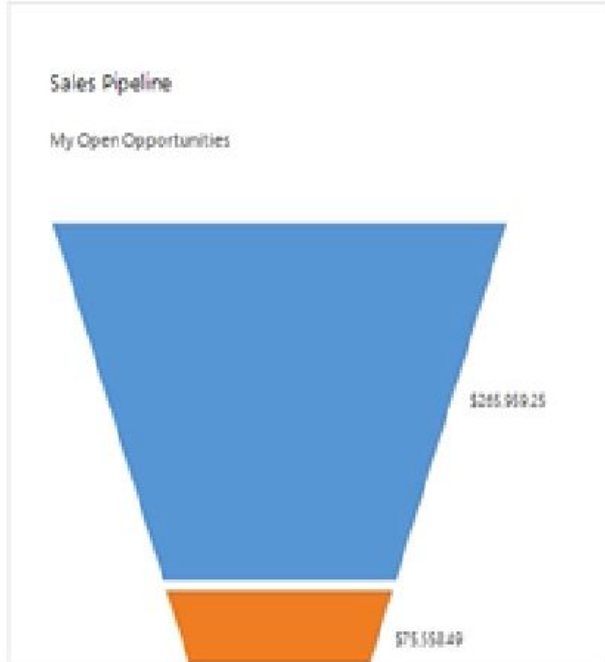
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<https://colab.research.google.com/drive/1MLVaBCy92EssAfVFul2SorefUy1NQIHm>

Future improvements

- Expanding the dataset
- Designing a specialized model
- Integration in systems interaction



Conclusions



Thanks!

