

**THE RESULTS** 

# **KEY OUTCOMES**

such as vehicles, street lights, and pedestrians.



DRIVE 45% FTE SAVINGS WITH LABELING AUTOMATION



ACHIEVE MORE THAN 92% LABELING ACCURACY

With our deep learning platform for visual data analysis, the customer was able to:



IMPROVE THE QUALITY OF ANNOTATION BY 10-20%



REDUCE TIME TO LABEL NEW OBJECTS BY 50% WITH REUSABLE COMPUTER VISION COMPONENTS

THE CHALLENGE

## **3 KEY AREAS**

Manually labeling objects from street videos was leading to:



### **Protracted cycles**

Protracted cycles for object analysis



### **Increased Costs**

Increased cost due to higher manual labor



### **Human Errors**

Higher scope for human errors

THE SOLUTION

## **4 KEY AREAS**

Apexon brought onboard its Image and Video Analytics platform, a proprietary deep learning platform that speeds up analysis of visual data to enable:



### **Deep Learning Algorithms**

Proactive prediction of objects seen in the video with deep learning algorithms such as EfficientDet, Resnet 50, Mask CNN, and the COCO weights



#### **Pinhole Camera & Tool Resolution**

Conversion of annotations to XMLs with an XML generator to calibrate pinhole camera position and tool resolution



## **Object Tracking & Computer Algorithms**

Identification of object location across all frames and annotation generation with object tracking algorithms and computer vision



#### **Data Generator Tool**

Curation of tags and corresponding images with XML parser - a data generator tool



Apexon is a pure-play digital engineering services firm focused on helping companies accelerate their digital initiatives from strategy and planning through execution. We leverage deep technical expertise, Agile methodologies and data-driven intelligence to modernize systems of engagement and simplify human/tech interaction.

We deliver custom solutions that meet customers' technology needs wherever they are in their digital lifecycle. Backed by Goldman Sachs and Everstone Capital, Apexon works with both large enterprises and emerging innovators — putting digital to work to enable new products and business models, engage with customers in new ways, and create sustainable competitive differentiation.



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