



SUCCESS STORY AUTOMOTIVE

AUTOMOTIVE OEM GETS ACCURATE VIDEO LABELLING FOR AUTONOMOUS VEHICLES

Apexon solution helps accelerate mobile application development



With autonomous car technology cresting the horizon, automakers are working with IT partners to drive greater innovation and safety margins within every self-driving vehicle.

One of Germany's most well-known OEM's launched a new technology division aimed at perfecting autonomous driving technology. The firm looked to Apexon to help them with a video labelling solution that would tag various objects in and around a car, enabling faster mobility application development.



THE RESULTS

KEY OUTCOMES

Apexon successfully hit every milestone and reached all mandated targets over the course of two years, processing over 25 million labels in that time frame. Additionally, we were able to:



CONSISTENTLY DELIVER AN SLA TARGET OF 99.5%, WITH UNDER 5 DEFECTS PER 1000 LABELS



DRASTICALLY REDUCE PROJECT HIRING TIMES & INFRASTRUCTURE SET UP COSTS



DEPLOY A RELIABLE DATA SECURITY FRAMEWORK WITH SCALABLE OPTIONS FOR FUTURE BUSINESS GROWTH



ESTABLISH STRINGENT RESOURCE MANAGEMENT PROTOCOLS, INCLUDING A 10% RESOURCE BUFFER

THE CHALLENGE

5 KEY AREAS

While video labelling is not an entirely new technology, this particular project posed certain significant challenges.



Quality Solution

Delivering a quality solution with a very low scope for error and zero timeline to rectify errors



New Work Types

Handling new work types with relatively unknown business rules and volume flow



Management Processes

Low resource availability, high attrition rate, and short annual hiring timelines



ODC Setup

Building an ODC setup to work with patented technologies and solutions



Poor Video Files

Working with poor quality video files

THE SOLUTION

4 KEY AREAS

In building and deploying the solution, Apexon engineers used several tools to annotate the video labels and streamline the hiring process. Solution details include:



Using Appropriate Toolsets & Programs

Using a blend of proprietary toolsets and Philosys Label Editor to fully annotate objects using textural and geometric markers and classes, while delivering them in XML data format – to be used in algorithmic validation and machine learning applications



Cvedia Platform

Leveraging the Cvedia platform to enable deep learning vehicle applications via live streaming video footage, and Vatic annotation tool to quickly build massive video sets that are deployable to Amazon Cloud



Progression Indicators

Deploying outcome-based incentive models and cross training as a career progression indicator



New Hiring Processes

Tailoring new hiring processes to meet the requirements specific to the received work input format



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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