iMerit

iMerit works with Computer Vision and Machine Learning companies to enrich and label their training data reliably and at scale. We help transform large volumes of unstructured data into valuable training datasets for algorithm training. The quality of our datasets is what sets apart an experimental model from an a production-ready one.

Annotation

Image, text, and audio data is often **multidimensional**. To increase the usability of these complex datasets, annotation and tagging services identify important attributes. This allows our customers to make meaningful connections between data points, categorize those data points, and have information that is actionable.
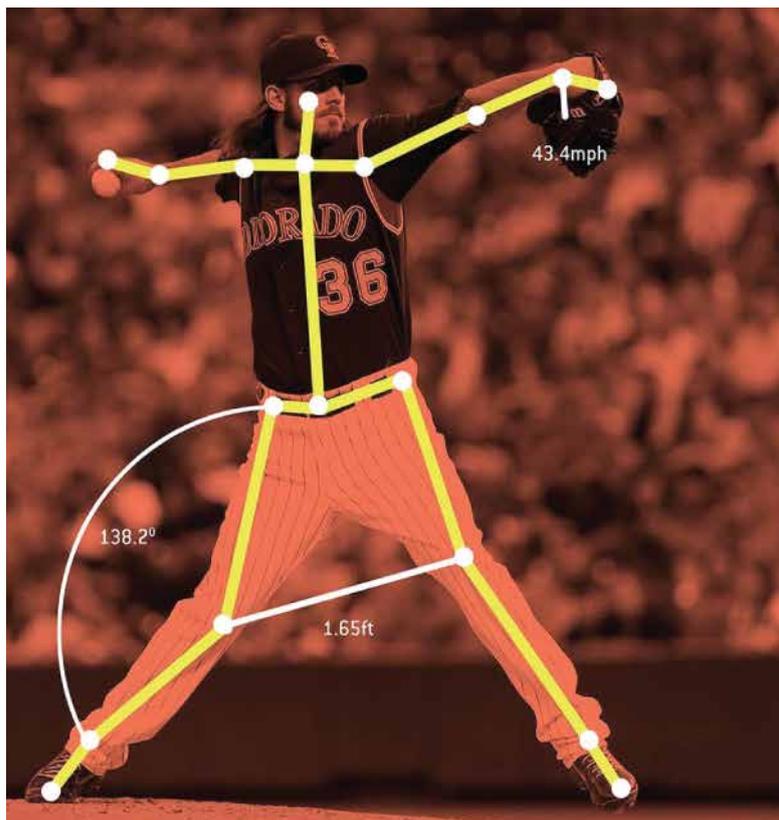
SUCCESS STORY
World Series-Winning Computer Vision

Challenge

KinaTrax is a fast-growing sports analytics startup that develops a markerless motion capture system used by Major League Baseball (MLB) teams to measure players' performance, fatigue, and risk of injury. Using in-game footage of players captured from twelve different cameras, KinaTrax builds machine vision algorithms capable of analyzing the movements of MLB pitchers. MLB teams can then use the analyses to make decisions about player health, performance, and safety.

Results

iMerit teams created accurate 3D models for over 300 MLB pitchers. These models are used as the foundation for ongoing in-game analysis by KinaTrax and helped the Chicago Cubs in their historic World Series win in 2016.

Solution

iMerit teams are involved in the KinaTrax process from end-to-end. We first process in-game video footage of players and create still images from the footage. We then annotate the images based on the needs of the KinaTrax algorithms. These images are fed into KinaTrax's systems for ongoing analysis and distribution to MLB teams.

"iMerit's data annotation services are fundamental to our work at KinaTrax, enabling us to build accurate models for hundreds of MLB pitchers and turn these models into actionable insights. We look forward to working with iMerit for seasons to come!"

KINATRAX

Segmentation

Images are dense with information, at a granularity that is not always needed. Through image segmentation, we subdivide an image into useful segments. For example, we can segment 'water' from 'land' or something more complex. This segmented data is used to train driverless vehicles to 'see' and understand their environment.

SUCCESS STORY
Teaching self-driving algorithms to see

Challenge

Our client is a leading global automobile manufacturer and a major contender in the autonomous vehicle segment. They need large volumes of data to be segmented pixel by pixel into predetermined classes of objects, in order to train their in-house algorithm.

Solution

iMerit employs a team of visual data experts who perform semantic segmentation on up to 100,000 street images every day. They label the elements in the images into predetermined classes of objects, ultimately dividing the image into semantically meaningful parts. This is done with the utmost precision and reviewed by quality experts to ensure over 95% accuracy. Our teams have annotated over 2 million images to date.

Results

Our team has segmented more than 100,000 images so far. These image datasets help train the machine learning algorithm not just to 'see' but also understand and interpret its environment and accuracy.