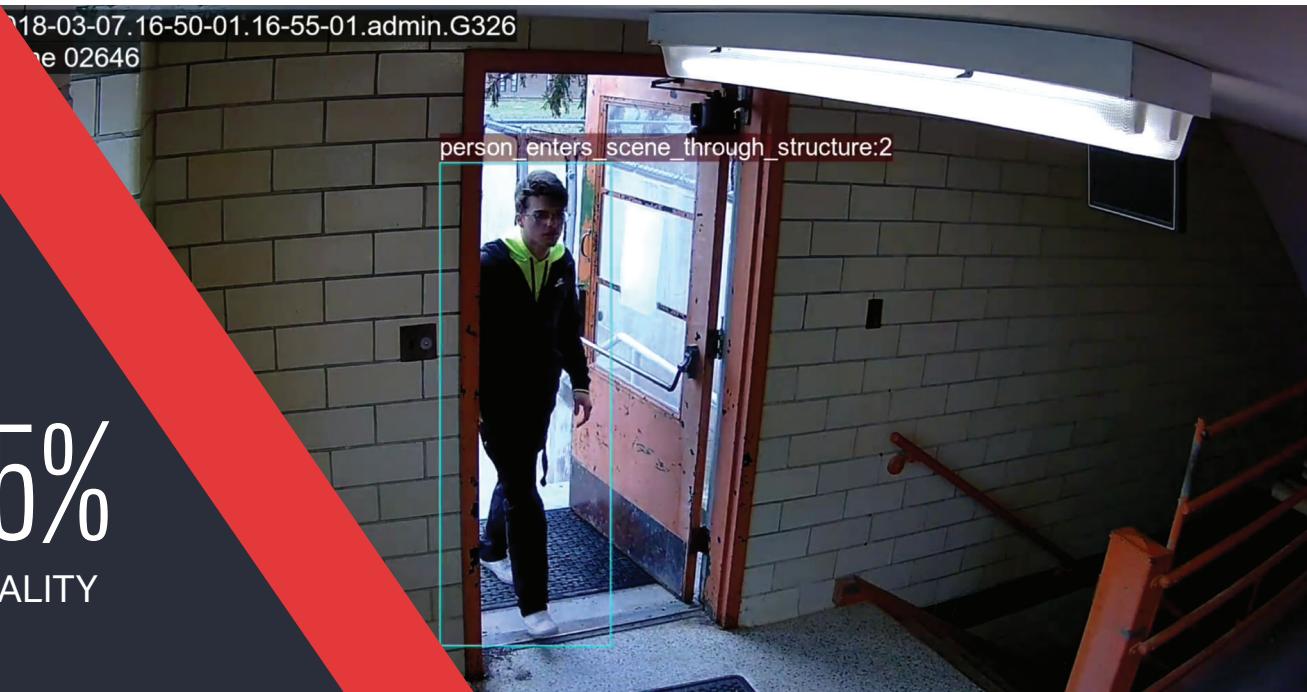


97.5%

CLIP QUALITY



SCALING ANNOTATIVE CAPACITY

Kitware leverages *iMerit* to rapidly annotate terabytes of video data and achieve high-quality annotation.

THE CHALLENGE

Kitware provides advanced technical computing, state-of-the-art artificial intelligence (AI), and tailored software solutions to their customers. While working with Intelligence Advanced Research Projects Activity (IARPA), Kitware needed to scan almost 200 hours of video and a significant quantity of unreleased, sequestered data and identify 47 unique activity types. IARPA then used this data to support the development of an AI solution that could be used by many institutions to help activity detectors identify when a person or vehicle performed a specific activity.



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iMerit brought a lot of experience to the table that helped us. They pushed through the pandemic when the world was on hold, complimented our tool set, and expanded our capacity and capabilities.

Kellie Corona,
Data Analyst,
Kitware

To annotate this data, Kitware enlisted support for their in-house annotation team. Since there was not enough time to hire, train, and ramp up new talent to formally join their team, Kitware began evaluating AI data solutions vendors who could help. After evaluating vendors, Kitware chose to work with *iMerit*.

THE SOLUTION

Kitware assigned *iMerit* with 189.5 hours of video content, which included nearly 3000 5-minute video clips. Annotation guidelines were established

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iMerit functions as an arm of Kitware, complimenting our toolset and expanding our ability to take on more business.

Keith Fieldhouse,
Director of Cyber-
Physical Systems,
Kitware

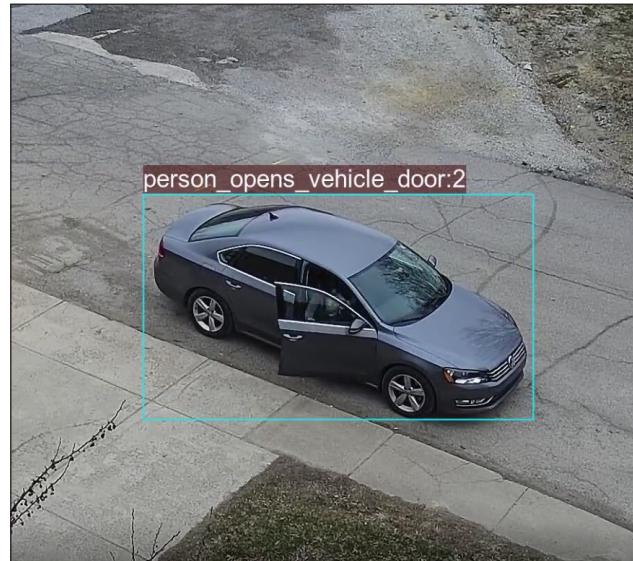
seamlessly, and iMerit quickly developed a sequential production and quality control workflow to optimize efficiency while maintaining quality. iMerit annotators immediately began viewing, dissecting, and annotating the video footage.

Once iMerit had annotated some of the data, Kitware quickly gave iMerit feedback, which was then applied to iMerit's annotation workflow. The result of this strong feedback loop allowed iMerit to fine-tune the annotation, resulting in an overall clip quality of 97.5%, with only 2.5% of the video clips needing to be reworked.

THE RESULT

iMerit annotators spent 60K hours annotating video footage, with an average of 26 hours on each clip. This yielded a final result of 132K activity instances, 186K track instances, and 84 million bounding boxes applied. Kitware annotators reviewed 100% of the testing and evaluation quality data, resulting in an exceptional 2.5% clip return rate.

iMerit continues to be an essential partner for Kitware. As the IARPA engagement continues, iMerit functions as an arm of Kitware, using the same tools, philosophy, and professionalism that Kitware's customers demand.



BOTTOM LINE IMPACT

97.5%

Clip Quality

189.5

Hours of Footage Annotated

84 Mn

Bounding Boxes Applied

About iMerit

iMerit is a full-service data annotation company specializing in artificial intelligence and machine learning. Need a collaborator on your next big project? Speak with an iMerit expert today, and take your project to the next level.