Complex Taxonomy Classification, Cognitive Load Management

A Fortune 50 home improvement retailer required a variety of furniture to be identified and classified within 450 predefined categories for their computer vision project.

Challenge:
- Training the annotator to understand the nuances of all 450 categories
- Avoiding annotator burnout and mislabels
- Identifying overlapping objects in images with inconsistent resolutions and perspectives
- Hitting a minimum of 200 boxes per object type

Solution: Our team tested and distributed 22 workflows containing micro-tasks designed to reduce worker fatigue and error, used ML-augmented task-to-annotator skills matching, and increased annotator performance by building a 300 page training curriculum. Alegion delivered 127K bounding boxes at 5x the annotation rate of their original team, and shaved one month off the turnaround time.

Want to learn more? www.alegion.com

- Bounding boxes, key points, polygons, splines
- Semantic segmentation
- Video annotation
- Large taxonomy application
- ML-assisted pre-labeling: object detection & classification
- Facial landmark detection
- Entity relationships & ID tracking
- Image analysis and assessment

5x the annotation rate for 127k bounding boxes