IMAGE ANNOTATION FOR MACHINE LEARNING MODEL DEVELOPMENT (AUTONOMOUS TRUCKS) FOR AN ANGLO-AUSTRALIAN MINING COMPANY

PROJECT BACKGROUND

- The client, an Anglo-Australian multinational mining company, sought Infosys expertise to create a training dataset for their machine learning model

- The 8 week project entailed a machine learning approach to creating image classification by identifying and extracting key features like equipment, sky, vegetation, water etc. from drone captured images in their coal mines

- The trained dataset will enhance the machine learning model for autonomous trucks to detect objects and obstructions in real time

- The key deliverable of the project was to annotate 5000 images over a period of 8 weeks in adherence with client's class category definitions, annotation specifications and quality targets

CLIENT'S CHALLENGES

- Limited scale and process expertise to perform data annotation activities

- Lack of tools and automation platform to complete annotation activities in quick time while maintaining a high level of quality output
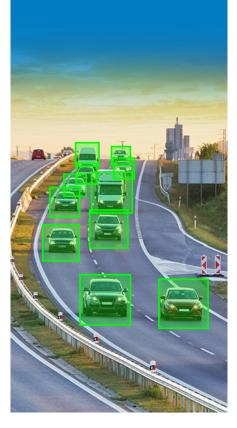
INFOSYS SOLUTION

- Infosys collaborated with it's data annotation platform partner by leveraging a hybrid delivery model to streamline project executionand effectively deliver annotation tasks following a "implement > learn > refine" process methodology

- A mix of annotators from both the partner and Infosys' own pool of experts performed annotations on 5000 images using defined class categories and specifications using the partners data automation platform

- Infosys' experienced annotators validated the annotated images for completeness and quality checked the same to ensure the final deliverables were of the highest quality levels

OUTCOME

- On-time delivery of 5000 annotated images with 99.5% quality

- Complex images managed with 100% quality and no deviations to delivery timelines

For more information, contact askus@infosys.com

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