HGV1 - Koala AI

Industry Partner: Ben Sand
Location of Partner: Online/Remote
URL for Partner: NA
Contact Person:

Name: Ben Sand
Email: ben@bensand.com
Phone:

General field/discipline: AI, Deep Neural Networks, Image Processing, Big Data

Specific requirements/Skills:

This project is for students who want a serious real-world industry experience. They will need to be self-motivated and goal focused, with a strong Python background and an interest in AI. Experience working with AI, deep neural networks, image processing or big data is preferred but not required.

TensorFlow/Keras, Python, Gazebo (experienced teams only)

Project Outline:

This is a real AI challenge connected to a real industry outcome. If your team is successful, we will be looking to hire.

AI research and development are the fastest and biggest growth areas in the technology field. We are building the next big AI data processing technologies locally in Australia.

The goal is to develop a solution to accurately and efficiently estimate koala populations using computer vision through neural networks. This is critical in doubling the numbers of this threatened species in NSW by 2050.

You will be researching and developing the latest state-of-the-art technologies to build a neural network that detects koalas in the wild to help with conservation efforts. There will also be a possible opportunity to work with drones to deploy your network in real time for strong and motivated teams.

Students will work directly with the industry partner and be able to gain valuable industry knowledge. Clients have more than 10 years of Capstone Project experience working with Sydney University.

Teams: 2+

Resources:
Koala Count Challenge