

HGV6 - Full Self Driving - Beta 10

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: DevOps, Web Development, AI

Specific requirements/Skills:

This project is for students who want a serious industry experience. They will need to be self-motivated and ready to research, develop and deploy the latest AI technologies.

Skills in TensorFlow/Keras, Python, Docker, Web Technologies.

Project Outline:

Tesla's FSD Beta 9 has been released and we'd like to improve on it. If you'd like a serious AI challenge and a career in deep learning, this is the one for you.

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.

Companies are struggling to develop self-driving car technology. There is still a long way to go before we see vehicles driving at level 3 or above autonomy. The goal of this project is to experiment and develop the latest technologies using deep learning, surpassing that of the existing Tesla FSD Beta 9 currently in testing.

Students will be required to gather data, clean data, build Neural Network(s) and demonstrate results both statistically and in a simulator. Students will also be benchmarking the technologies they develop on different GPU stacks, comparing performance of TensorCores, CUDA cores and VRAM.

This project will be guided by a full-time project manager to maximise their potential.

Students will work alongside the industry partner and be able to gain valuable industry knowledge. For the strongest programmers, real job opportunities may be available. Clients have more than 10 years of Capstone Project experience working with Sydney University.

Teams: 2+

Resources:

[Video: FSD Beta 9 Testing](#)