Udacity Robotics Nanodegree

Project 4

Deep Learning Project: Follow Me

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**Objective:**

The object of this project is the build a fully convolutional neural network to use semantic segmentation to identify a target and follow it.

**Process:**

The network is developed using Jupyter Notebooks, Tensorflow, and Keras.

**Model Training and HyperParameters:**

**FCN Architecture:**

**Data Collection:**

**Final Results:**

**Files:**

GitHub repository: <https://github.com/fzero6/search-sample-return/tree/master>

Python files:

model\_training.ipynb

follower.py

preprocess\_ims.py

Other files:

Weights.hd5

**References:**

1. Udacity, "Introduction to Robotics," [Online]. Available: <https://classroom.udacity.com/nanodegrees/nd209/parts/c199593e-1e9a-4830-8e29-2c86f70f489e>.
2. <https://github.com/udacity/RoboND-Rover-Project>