

Self Driving Car Engineer Nanodegree

Weekly Outline

| | Week # | Material to Cover |
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| Term 1 | First Day | <ul style="list-style-type: none"> Welcome Join Slack and Forums Career Lessons/Projects are optional |
| | Week 1 | <ul style="list-style-type: none"> Computer Vision Fundamentals |
| | Week 1 | Project 1: Finding Lane Lines |
| | Week 2 | <ul style="list-style-type: none"> Intro to Neural Networks |
| | Week 3 | <ul style="list-style-type: none"> Mini Flow Intro to TensorFlow |
| | Week 4 | <ul style="list-style-type: none"> Deep Neural Networks Convolutional Neural Networks |
| | Week 5 | <ul style="list-style-type: none"> LeNet for Traffic Signs Work on project |
| | Week 6 | Project 2: Traffic Sign Classifier |
| | Week 7 | <ul style="list-style-type: none"> Keras Transfer Learning |
| | Week 8 | <ul style="list-style-type: none"> Work on project |
| | Week 9 | Project 3: Behavioral Cloning |
| | Week 10 | <ul style="list-style-type: none"> Advanced Techniques for Lane Finding |
| | Week 11 | Project 4: Advanced Lane Finding |
| | Week 12 | <ul style="list-style-type: none"> Machine Learning and Stanley Support Vector Machines Decision Trees Object Detection |
| | Week 13 | Project 5: Vehicle Detection and Tracking |
| | Week 14 | <ul style="list-style-type: none"> Finish outstanding projects or lessons |
| | End of Term | |
| | Term Break | Careers Lessons: <ul style="list-style-type: none"> Research Your Career Options Networking Github and Collaboration |