Here is are gitHub links to all the projects and code I wrote for :

* + - AUTONOMOUS VEHICLES ENGINEERING DEGREE
    - NLP NANO DEGREE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **topic** | **project** | **write-up** | **code** | **result : video simulator** |
| **Computer Vision** |  |  |  |  |
|  | Finding Lane Line | [Lane\_Detection.pdf](https://github.com/tresordesfeves/CarND-LaneLines-P1/blob/master/Lane_Detection.pdf) [Lane\_Detection.pages](https://github.com/tresordesfeves/CarND-LaneLines-P1/blob/master/Lane_Detection.pages) | [CarND-LaneLines-P1](https://github.com/tresordesfeves/CarND-LaneLines-P1) | <https://youtu.be/47Pb4-YjEqE> <https://youtu.be/hqxOL-9ClCQ> |
|  | Advance Lane Finding | [Advance\_Lane\_Detection.pdf](https://github.com/tresordesfeves/CarND-Advanced-Lane-Lines/blob/master/Advance_Lane_Detection.pdf) [Advanve\_Lane\_Detection.pages](https://github.com/tresordesfeves/CarND-Advanced-Lane-Lines/blob/master/Advanve_Lane_Detection.pages) | [CarND-Advanced-Lane-Lines](https://github.com/tresordesfeves/CarND-Advanced-Lane-Lines) | <https://youtu.be/Piy3fgQBUe4> |
| **Deep Learning** |  |  |  |  |
|  | Traffic Sign Classifier | [Traffic Signs Classifier.pdf](https://github.com/tresordesfeves/CarND-Traffic-Sign-Classifier-Project/blob/master/Traffic%20Signs%20Classifier.pdf) [Traffic\_Signs\_Classifier.pages](https://github.com/tresordesfeves/CarND-Traffic-Sign-Classifier-Project/blob/master/Traffic_Signs_Classifier.pages) | [CarND-Traffic-Sign-Classifier-Project](https://github.com/tresordesfeves/CarND-Traffic-Sign-Classifier-Project) |  |
|  | Behavioral Cloning | [Behavioral\_Clonning\_Write\_Up.pdf](https://github.com/tresordesfeves/CarND-Behavioral-Cloning-P3/blob/master/Behavioral_Clonning_Write_Up.pdf) [Behavioral\_Clonning\_Write\_Up.pages](https://github.com/tresordesfeves/CarND-Behavioral-Cloning-P3/blob/master/Behavioral_Clonning_Write_Up.pages) | [CarND-Behavioral-Cloning-P3](https://github.com/tresordesfeves/CarND-Behavioral-Cloning-P3) | <https://www.youtube.com/watch?v=ZJ5JX-UCRfY> |
| **Sensor Fusion** | Extended Kalman Filter | no write up: see code | [CarND-Extended-Kalman-Filter-Project](https://github.com/tresordesfeves/CarND-Extended-Kalman-Filter-Project) | <https://youtu.be/lNJJgfLZxSc> |
| **Localization** | Kidnapped Vehicle | particle filter, no write up, see code | [CarND-Kidnapped-Vehicle-Project](https://github.com/tresordesfeves/CarND-Kidnapped-Vehicle-Project) | <https://youtu.be/c5XmHN5rhTM> |
| **Path Planning** | Highway Driving | [Path\_planning\_High\_Way\_driving.pdf](https://github.com/tresordesfeves/CarND-Path-Planning-Project/blob/master/Path_planning_High_Way_driving.pdf) [Path\_planning\_High\_Way\_driving.pages](https://github.com/tresordesfeves/CarND-Path-Planning-Project/blob/master/Path_planning_High_Way_driving.pages) | [CarND-Path-Planning-Project](https://github.com/tresordesfeves/CarND-Path-Planning-Project) | <https://youtu.be/vowLzl44K2g?t=40> <https://youtu.be/vowLzl44K2g?t=58> [https://youtu.be/K8VsriFxCnw?t=800](https://www.youtube.com/watch?v=K8VsriFxCnw&t=800s) |
| **Control** | PID Controller | [PID\_Controller\_write\_up.pdf](https://github.com/tresordesfeves/CarND-PID-Control-Project/blob/master/PID_Controller_write_up.pdf) [PID\_Controller\_write\_up.pages](https://github.com/tresordesfeves/CarND-PID-Control-Project/blob/master/PID_Controller_write_up.pages) | [CarND-PID-Control-Project](https://github.com/tresordesfeves/CarND-PID-Control-Project) | <https://youtu.be/eBj4T2Ndcpg> |
| **System Integration** | System Integration\_ **ROS (Robot Operating System)** | [System\_Integration\_ROS.pdf](https://github.com/tresordesfeves/CarND-Capstone/blob/WP_update_fix/System_Integration_ROS.pdf) [System\_Integration\_ROS.pages](https://github.com/tresordesfeves/CarND-Capstone/blob/WP_update_fix/System_Integration_ROS.pages) | [CarND-Capstone](https://github.com/tresordesfeves/CarND-Capstone) | <https://youtu.be/jn_ZHewUh64> <https://youtu.be/CnPGhG-iWkQ> |
| **Speech Recognition with Neural Network** | RNN, CNN, Time\_distributed Dense, Biderectional RNN |  | <https://github.com/tresordesfeves/Speech-Recognition-with-Neural-Networks/blob/master/.ipynb_checkpoints/vui_notebook-checkpoint.ipynb> |  |
| **Machine Translation** | RNN, CNN, Time\_distributed Dense, Bidirectional RNN |  | <https://github.com/tresordesfeves/Machine-Translation/blob/workspace/machine_translation-HARD_CODED.ipynb> |  |
| **POS tagging, Hidden Markov Models** | **POS tagging, Hidden Markov Models** |  | <https://github.com/tresordesfeves/Part-of-Speech-Tagging-with-Hidden-Markov-Models/blob/master/HMM%20Tagger%20finished.ipynb> |  |