**Functionalities of autonomous vehicles using semantic segmentation and object detection**

**Literature Review:**

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| --- | --- | --- | --- | --- |
| **S. No** | **Authors** | **Tittle** | **Publishing techniques&**  **Datasets** | **Pros** |
| 1 | A. Yoganandhan,  S.D. Subhash,  J. Hebinson Jothi,  V.Mohanavel | Fundamentals and development of self-driving cars  (2020) | GNSS-RTK, Inertial navigation,  LIDAR localization,  Camera-based localization | Less chances for accidents, driver’s liability |
| 2 | Sorin Grigorescu,  Bogdan Trasnea,  Tiberiu Cocias ,  Gigel Macesanu | A survey of deep learning techniques for autonomous driving  (2019) | AI-based self-driving architecture, convolutional and recurrent neural networks, as well as the deep reinforcement learning paradigm | survey the current state-of-the-art on deep learning technologies used in autonomous driving |
| 3 | Uppala Sumanth,  Narinder Singh Punn,  Sanjay Kumar Sonbhadra,  Sonali Agarwal | Enhanced Behavioral Cloning-Based Self-driving Car Using Transfer Learning  (2021) | VGG16 architecture | This paper proposes a transfer learning approach using VGG16 architecture |