Customer Requirements

**SpeedBumps ML**

**ــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــ**

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**Project Description:**

Definition:

A Deep learning model that detect the speed bumps on the road and estimates the distance between the car and the bump.

Features:

* Model that detects speed bumps on road.
* Estimate the distance between vehicle and bump.

Key Elements:

* Data mining
* The model detects speed bumps using neural network
* The distance between the car and the bump shall be estimated.

**Mapping Cutomers’s ID:**

| **ID Requirement** | **Covers** |
| --- | --- |
| PO\_SB\_ CR\_SpeedBumps\_ML\_ **001**-V1.0 | Data mining |
| PO\_SB\_ CR\_SpeedBumps**\_**ML\_ **002**-V1.0 | The model detects speed bumps using neural network |
| PO\_SB\_ CR\_SpeedBumps**\_**ML\_ **003**-V1.0 | After successful detection , The distance is estimated between the car and the bump by using specified Algorithm |