Customer Requirements

**SpeedBumps ML**

**ــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــ**

**Table of Contents**

Document Status: ………………………………………………………1

Document History: ……………………………………………………...1

Reference Documentation: ……………………………………………2

Project Description: …………………………………………………….2

Mapping Customer’s ID: …..………………………………………….3

**Document Status:**

|  |  |
| --- | --- |
| **Name** | PO\_SB\_CR\_SpeedBumps\_ML |
| **Version** | V1.0 |
| **Status** | Proposed |
| **Author** | Mariam |
| **Date** | [26-9-2022] |

**Document History:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Author** | **Date** | **Change** |
| 1.0 | Mariam | [26-9-2022] | Initial Creation |

**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:

* The deep learning model shall contain algorithms for data mining.
* The deep learning model shall detect 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 | The deep learning model shall contain algorithms for 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 | The distance between the car and the bump shall be estimated. |