Customer Requirements Specification

**Speed Bump ML**

**ـــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــ**

**Table of Contents**

[Document Status:](#_lp71t726spji) ………………………………………………………………...1

[Document History:](#_edfh8stv33cy) ………………………………………………………………..1

[Reference Document:](#_cnrt6zvbitch) …………………………………………………………....2

[Project Description:](#_jhjnw0jh1mna) ……………………………………………………………....2

# **Document Status:**

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| 1.0 | Salma | [29-10-2022] | Initial Creation |

### 

### Reference Document:

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| **Ref.number** | **Doc.Name** | **Version** | **Status** |
| 1 | PO\_SB\_CR\_ML | V1.1 | Released |

#### 

#### Project Description:

Definition:

A Deep learning model that detects 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.

System Context:

Diagram

Description automatically generated

CRS Requirements:

|  |  |  |  |
| --- | --- | --- | --- |
| **Req\_ID** | PO\_SB\_CRS\_***xxx***-V1.0 | **Covers** | PO\_SB\_CR\_***xxx***-V1.0 |
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