Customer Requirements

**SpeedBumps ML**

**ـــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــ**

**Table of Contents**

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

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

Project Description: ……………………………………………………..1

Mapping Customer Requirements: ……………………………………2

**Document Status:**

|  |  |  |
| --- | --- | --- |
| **Name** | PO\_SB\_CR\_ML | |
| **Version** | V1.1 | |
| **Status** | Released | |
| **Author** | Salma | |
| **Date** | [26-10-2022] | |
| **Team approval** | Salma | Approved |
| **Mentor approval** | Esraa Abdelnaby | Approved |
| **Final approval** | Esraa Abdelnaby | Approved |

**Document History:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Author** | **Date** | **Change** |
| 1.0 | Mariam | [26-9-2022] | Initial Creation |
| 1.1 | Salma | [26-10-2022] | CR\_REV\_0001,  CR\_REV\_0002,  CR\_REV\_0003, |

**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.

|  |  |
| --- | --- |
| **ID Requirement** | **Mapped to** |
| PO\_SB\_ CR\_ML\_ **001**-V1.1 | The deep learning model shall contain algorithms for data mining. |
| PO\_SB\_ CR**\_**ML\_ **002**-V1.1 | The model detects speed bumps using neural network |
| PO\_SB\_ CR\_ML\_ **003**-V1.1 | The distance between the car and the bump shall be estimated. |

**Mapping Customer Requirements:**