Big Data Analytics Project Close-Out

Car Object Detection Model

1. Project Summary

The technology related to recognizing two distinct objects in image data is known as Vision Systems. We will be using this technology in our project to identify between Vehicles and Non-Vehicles and further the scope for the client to integrate it with GPS in motor vehicles. We can also identify other electric vehicles nearby and decrease the risk of autonomous vehicles moving in way of motor vehicles further on in project if time and budget allows.

The project is aimed at identifying the difference between vehicle and non-vehicle in camera captured images in .png format.

The project will provide help in increasing the GPS functionality to distinguish on-coming vehicles and provide clients customer with better awareness of surrounding and prevent accidents.

2. Completion Criteria

Identify the criteria required to complete the project.

Item	**Completion Criteria**	**Complete**
Exploratory Data Analysis	Viewing the data provided for data analysis	Y
Creating CNN	CNN was successfully created with model accuracy : 0.9998 and validation accuracy as : 0.9997	Y
Visualization of predicted Data	Predicted data was visualized and presented as per the requirements to distinguish between vehicle and non-vehicle	Y

3. Project Close-Out Package

This section details all items that are contained in the Project Close-Out Package. Detail all deliverable items referred to in the Project Charter.

Item	Method of Delivery	Complete
Application Code	Saved to SharePoint and GitHub	Y
Database Credentials	Sent by email to my.client@client.com Saved in document named CredentialDocument.doc on the SharePoint	Y
YouTube Presentations	First Phase: https://www.youtube.com/watch?v=or5n8mrEcy4&ab_channel=SamarpanPandey Project Close out: https://www.youtube.com/watch?v=or5n8mrEcy4&ab_channel=SamarpanPandey	Y
Project Proposal	Saved to SharePoint	Y

4. Document Approvals

This section lists the significant stakeholders related to the project

Project Role	Name	Signature	Date
Client	Richard Lambroff		4/11/23
Data Analyst	Priya Jogani	Priya Jogani	4/11/23
Data Analyst	Suheet Sonawane	Suheet Sonawane	4/11/23
Project Lead	Samarpan Pandey	Samarpan Pandey	4/11/23