**DESCRIPTION OF WORK**

**for**

**BLG 506E**

**COMPUTER VISION**

**COURSE PROJECT**

**Project Title**

**Name and number of the Student**

Date

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# EXECUTIVE SUMMARY

In this project, the aim is to classify vehicles in an image. There are two main objectives in this project which will be represented by computer vision models. Transfer learning methods will be used; therefore, pre-trained models will be evaluated. In summary, Ali Şentaş will be responsible for training the model that detects the vehicle in an image, draws bounding boxes around them and provide these images to the classifier model. Classifier model will be the responsibility of Melik Buğra Özçelik. This model will be trained to classify vehicles based on their types (car, truck, bus etc.).

# INTRODUCTION

Describe the motivation for the project and provide some background information.

# PROJECT DESCRIPTION

Describe the project and also include:

## Goals of Project

List goals of the project

## Impact of Solution

Impact of the solution and their specific expected benefits to the society, individuals, etc.

## SOTA

Provide a brief overview of the similar works worldwide and state of the art.

### Novel contributions

State key differences of your contribution from already available solutions.

## Risk Assessment

Indicate if there are any risks related to technical issues, e.g. risks related to the development of a proposed algorithm. Also, indicate contingency plans in case the risk materializes.

# PROJECT SCOPE

This SOW shall apply to the tasks, services and terms detailed below:

## Work Breakdown Structure (WBS)

[From Wikipedia] The WBS is a tree structure, which shows a subdivision of effort required to achieve an objective; for example a program, project, and contract. In a project or contract, the WBS is developed by starting with the end objective and successively subdividing it into manageable components in terms of subsystems, components and work packages which include all steps necessary to achieve the objective.

Example:

Figure 1 Example Work Breakdown Structure (WBS)

## Work Packages

[From Wikipedia] Similar to a WBS, a WP is part of a Plan Breakdown Structure, representing a collection of work actions necessary to create a specific result. The work package is the lowest level of the WBS where the duration can be reliably estimated.

Example:

|  |  |  |  |
| --- | --- | --- | --- |
| **WP 1** | **<WP Name>** | | |
| Start Date | <e.g. kickoff, M3> | End Date | <e.g. M5> |
| **Objectives:** This work package will cover ... | | | |
| **Tasks**   * *...* * *...* * *...* | | | |
| **Deliverables and Milestones:**  D1.1: ..  D1.2: ...  D1.3: ... | | | |

## Out of Scope

The following are considered OUT OF SCOPE for this contract:

Indicate any related topics out of scope.

# ASSUMPTIONS

Indicate if the project depends on any external material, e.g. certain data/hardware from some other company is needed to progress in the project.

# MILESTONES and DELIVERABLES

Tabulate milestones and deliverables from all work packages.

## Deliverables and Milestone Tables

Example:

|  |  |  |
| --- | --- | --- |
| **Deliverable (D)** | **Description** | **Date** |
| D1.1 | ... | M2 |
| D1.2 | ... | M2 |
| D1.3 | ... | M3 |
| … | … | … |

Table 2 Deliverable Table

|  |  |  |
| --- | --- | --- |
| **Milestone (MS)** | **Date** | **Deliverables** |
| MS1 | M1 | … |
| MS1 | M5 | … |
| … | … | … |

## Project Schedule (Gantt Chart)

Example:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M8 | M7 | M8 | M9 | M10 | M11 | M12 |
| WP 1 |  |  | D1.1 | D1.2 |  |  |  |  |  |  |  |  |  |  |
| WP 2 |  |  | D2.1 |  |  |  |  |  |  |  |  |  |  |  |
| WP 3 |  |  |  | D3.1 |  |  |  |  |  |  |  | D3.2 |  |  |
| WP 4 |  |  |  |  |  |  |  | D4.1 | D4.2 | D4.3 |  |  |  |  |
| WP 5 |  |  |  |  |  |  |  |  |  |  |  | D5.1 |  | D5.2 |

Figure 1 Gantt chart

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