Stuart Perry

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**Car Licence plate Detection**

**42177 Image Processing and Pattern Recognition**

**Assessment Task 1: Project Requirements and Specifications**

**Student’s Name & ID:**

**Tutor’s Name:**

**Tutorial Room Location:**

CB11.B.04.103-105



### 1. Introduction

* **Purpose**: Clearly explain the purpose of the report and the problem being studied.
* **Importance of the Problem**: Describe why this problem is important to society, providing relevant context.
* **Scope**: Briefly outline the structure of the report, mentioning the key sections (e.g., techniques selection, performance evaluation, etc.).

### 2. Problem Analysis

* **Problem Definition**: Explain the problem in detail. What specific issue are you trying to address?
* **Context and Societal Relevance**: Discuss the broader societal relevance of the problem. Why is solving this issue important? Provide real-world examples or scenarios.
* **Availability of Public Datasets**:
  + **Dataset Information**: Identify any public datasets that will be used.
  + **Dataset Relevance**: Justify why these datasets are suitable for addressing the problem.

### 3. Selection of Techniques

* **Techniques Overview**: Describe the techniques considered to solve the problem. Provide a brief explanation of each technique.
  + **Alternative Methods**: List and briefly discuss the various alternatives that could be applied.
* **Motivation for Chosen Techniques**: Explain why the techniques you selected are the best fit for solving the problem, based on your understanding from lectures and readings. Discuss the pros and cons of each alternative.

### 4. Performance Evaluation Methodology

* **Evaluation Metrics**: Identify the metrics you will use to measure performance (e.g., accuracy, precision, recall, etc.).
* **Experimental Setup**:
  + **Comparison Methods**: Describe how the different techniques will be compared.
  + **Datasets Used**: Mention which datasets will be used in experiments.
  + **Success Criteria**: Define what constitutes a successful outcome.
* **Expected Results**: Briefly mention what you expect to find and how the results will inform your conclusions.

### 5. Conclusion

* **Summary of Findings**: Recap the problem, techniques used, and the expected results.
* **Impact**: Discuss the broader implications of your work and its potential contributions to society or specific industries.

### 6. Reference List

* **Citations**: Provide a complete list of all sources cited in the report. Ensure all references are formatted consistently and properly cited in the text (e.g., APA, IEEE).
* **Justification of Sources**: Briefly explain the relevance of the key references used.

### 7. Contribution Table

* **Team Member Contributions**: Create a table detailing what each team member contributed to the project. Make sure each member’s role and efforts are clearly defined.

|  |  |
| --- | --- |
| **Team Member Name** | **Contribution Description** |
| Name 1 | Data collection, problem analysis, techniques research |
| Name 2 | Performance evaluation, experiments, result compilation |
| Name 3 | Report writing, references, formatting |