Assignment 3

1. Describe the process of image segmentation and explain its importance in computer vision applications.

2. Discuss the role of computer vision in medical diagnostics and explain how it can improve patient outcomes.

3. Analyze the impact of machine learning models on image recognition tasks and compare different algorithms.

4. Evaluate the effectiveness of various image enhancement techniques and discuss their practical applications.

5. Investigate the use of computer vision in autonomous vehicles and explain the challenges associated with it.

6. Research the current state of computer vision research and identify emerging trends and future directions.

7. Explore the role of computer vision in social media and discuss its ethical implications.

8. Compare and contrast the performance of different computer vision algorithms in image classification tasks.

9. Write a short report summarizing your findings and conclusions from the previous assignments.

10. Reflect on your experience with computer vision and discuss how you can apply these skills in your future career.

For the assignment, you are required to submit a detailed report that includes:

- A literature review of the topics covered in the assignment.
- An analysis of the selected computer vision techniques and their applications.
- A discussion of the ethical implications of computer vision technology.

Submit your report by the due date provided.