



INF 324

COMPUTER VISION

F I N A L P R O J E C T

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CARTOONIFIER AND SKIN CHANGER FOR ANDROID

INTRODUCTION

This project involves several functions that transform the visual aspects of photos using various computer vision techniques.





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MOTIVATION

We want to make the real-world camera frames look like they are genuinely from a cartoon. The basic idea is to fill the flat parts with some color and then draw thick lines on the strong edges.





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PROBLEM DEFINITION



01

How to convert a real-life image to a sketch drawing

04

A basic skin detector and skin color changer, to give someone green "alien" skin

02

How to convert to a painting and overlay the sketch to produce a cartoon

03

A scary "evil" mode to create bad characters instead of good characters

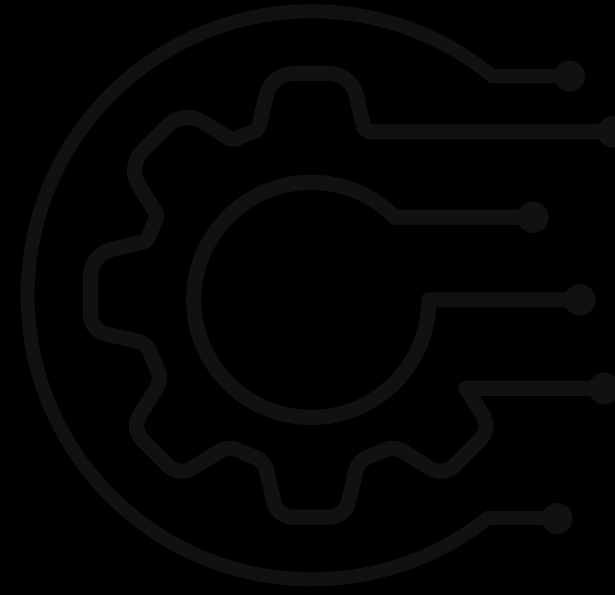




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MAIN PART

Solution–Code Demonstration–Analysis





CONCLUSION

This project has shown several different types of image-processing filters that can be used to generate various cartoon effects: a plain sketch mode that looks like a pencil drawing, a paint mode that looks like a color painting, and a cartoon mode that overlays the sketch mode on top of the paint mode to make the image appear like a cartoon. It also shows that other fun effects can be obtained, such as the evil mode that greatly enhances noisy edges, and the alien mode that changes the skin of the face to appear bright green

**THANK YOU FOR YOUR
ATTENTION**

**NO QUESTIONS,
PLEASE**

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