

Project Progress Report 3

Proposed Title: Creating Cartoon with Images

Type of Model: Software

Objective:

- To perform requirement analysis and select the image.
- To convert input image into NumPy array.
- To transform an image into grayscale.
- To apply K-Means Clustering Algorithm – Colour Quantization.
- To smooth grayscale image and retain the edges.
- To give a cartoon effect to the image.

Our objective is to apply cartoon effect to images using machine learning.

Progress of work:

- Importing required libraries like NumPy, Matplotlib and Open CV. An input image is also taken.
- We converted image to NumPy array which consists of integer ranging from 0 to 255.
- We transformed the image into grayscale image.
- We applied K-Means Clustering Algorithm to perform Colour Quantization.
- We smoothened the grayscale image.
- We retained the edges of the image.
- We then applied cartoon effect to the image.

Estimated Progress: 100%

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