GRAPHIC ERA UNIVERSITY, DEHRADUN

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

(CSE III Semester Bootcamp Project)
2020-2021



Report on Image Rotation using Open-cv

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1.1 About Project

This project is based on image rotation which is comprised of the way to rotate an image by a particular angle using OPEN-CV library. The tools and technology used are C++ programming language, Visual Studio 2019, GCC compiler and inbuilt library: Open-cv.

1.2 Modules:

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NAMESPACES: "using namespace cv" and "using namespace std" are the namespace being used in the program.

MAIN FUNCTION: main() function contains the in-built functions. IN-BUILT FUNCTIONS:

- 1) imread(): is used to take the image as input from different sources.
- 2) namedWindow(): is used to create a new window for the image.
- 3) imshow(): is used to display the image in the created window.
- 4) Point(): is used to find the point along which image is to be rotated.

- 5) getRotationMatrix2D(): is used to rotate the image by an angle.
- 6) warpAffine(): is used for transformation.
- 7) destroyWindow(): is used to destroy the window.
- 8) waitKey(): is used for execution of program.

1.3 Reference:

1.3.1 Websites:

- www.codewithc++.com
- www.tutorialspoint.com