



University Institute of Engineering

Department of Computer Science & Engineering

Experiment:

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Branch: Computer Science & Engineering

Section/Group:115 -5

Semester: 2

Date of Performance:

Subject Name: DISRUPTIVE TECHNOLOGIES 2

Subject Code:

1. AIM OF THE PRACTICAL: To develop facebook and instagram filter using spark ar

2. Tool Used: SPARK AR

3. BASIC CONCEPT/ COMMAND DESCRIPTION:

What is SPARKAR?

Spark AR is a studio tool from Facebook that allows users to create their own AR effects for mobile. First launched in 2017, Facebook continues to add capabilities to the platform – most recently, adding in analytics for Instagram and Facebook campaigns. Compatible for Mac and Windows, the AR platform is comparable to tools such as Sketch or Photoshop – only this is for augmented reality.

- Create your own AR effects, with or without a technical background
- Import your own 3D files and sounds
- Build with or without code

With a host of features and learning guides, it's a good tool for professional creators (such as studios like ours), as well as personal users. For example, Spark AR enables you to insert your own 3D objects into a project,



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change their properties and add interactivity, logic and animation. However, if you don't have your own 3D models, Spark AR provides a vast range of ready-made 3D objects in the AR library. Platforms like Spark AR demonstrate how mixed-reality technology is becoming more mainstream – more accessible, useful and fun. Spark AR enables you to create anything from a face filter to interactive AR games, and social media gives it a wide-ranging audience. Meanwhile, the importance of marketing via social media goes without saying. Instagram has over 500 million daily users and is ever-growing in popularity, with advertisers reporting four times as much engagement on Instagram as Facebook.

WHAT IS PHOTOPEA?

Photopea is a free, online image editing tool that allows users to edit images in a web browser without the need for software downloads or installations. It was created by a Czech programmer named Ivan Kutsir and was first released in 2013. Photopea supports a wide range of image formats, including PSD (Photoshop Document), AI (Adobe Illustrator), Sketch, XD, and many more. It offers features similar to those found in professional image editing software like Adobe Photoshop, including layers, masks, filters, and various selection tools. Photopea is a popular alternative to commercial image editing software because it's free to use and runs in a web browser. It's also frequently used by designers, photographers, and other creatives who need to quickly edit or manipulate images on-the-go without access to a dedicated image editing software.

4. STEPS TO PERFORM THE PRACTICAL

1. Add 3D object
 - Face mesh
2. Material
3. Select material on left
4. Texture on right choose file

Adjust the image

1. Drag and drop the image
2. Adjust the image as per requirement
3. Hide things that are not needed



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REMOVEBG STEPS

1. Go to <https://www.remove.bg/> in your web browser.
2. Click on the "Upload Image" button to upload the image you want to remove the background from. You can also drag and drop the image onto the website.
3. Once the image is uploaded, wait for the website to process it. This may take a few seconds depending on the size of the image.
4. After the website has processed the image, it will automatically remove the background.
5. You can preview the result by toggling the "Before" and "After" buttons.

If you are satisfied with the result, you can download the image by clicking on the "Download" button. The website offers different image resolutions for download, choose the one that suits your needs.

PHOTOPEA STEPS

Go to the Photopea website ([photopea.com](https://www.photopea.com)) and click on "File" in the upper left corner to start a new project.

1. Choose the type of file you want to create, such as a new image or an existing file.
2. Once you have your file open, you can start editing by selecting the tools from the toolbar on the left side of the screen. You can choose from a variety of tools, including the selection tool, crop tool, brush tool, and more.
3. To make specific changes, such as adjusting the brightness or contrast of an image, go to the "Adjustments" tab on the right side of the screen. From there, you can choose from a variety of adjustments, including brightness/contrast, levels, curves, and more.
4. If you want to add text to your image, select the text tool from the toolbar and click on the area where you want to add text. You can choose from a variety of fonts, sizes, and colors.
5. Once you are done editing your image, go to "File" and select "Save As" to save your file to your computer.



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4. OBSERVATIONS, SIMULATION SCREEN SHOTS AND DISCUSSIONS:





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6. RESULT AND SUMMARY:

Thus we have successfully create an AR filter in Facebook/ Instagram using SPARK-AR.

7. ADDITIONAL CREATIVE INPUTS (IF ANY):

The created AR can be uploaded to Facebook to visualize the effect any time.

LEARNING OUTCOMES (WHAT I HAVE LEARNT):

1. Use Spark AR
2. Create Facebook filters
3. Upload them
4. Photoshop using photopea



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Evaluation Grid (To be filled by Faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day)		8
2.	Viva voce		10
3.	Conduct		12
	Signature of Faculty (with Date):	Total Marks Obtained:	30