

Batch:A2

Experiment Number: 1

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Aim of the Experiment: To comprehend Case Study for AI application for PEAS and Task Environments

Output/Result:

APP Name: Faceapp (image editor app)

Features:

FaceApp has enriched with various face changing features with some creative marks and experiments that are successfully turning human face according to their choice.

Main features are:

- Editor options of adding an impression,
- Make-up
- Smiles
- Hair colors
- Hairstyles
- Glasses
- Age or Beards
- Filters
- lens blur and backgrounds along with overlays
- Tattoos, and vignettes

Advantages:

1. You can enjoy yourselves manipulating the face photos or use it for professional purposes.
 - FaceApp offers you many choices to manipulate uploaded photos through editor options such as adding impressions, makeup, hair colors, smiles, changing hairstyles, glasses, and the beard.
 - One of the most fascinating options is the aging option which can forecast your future face with much accuracy or can take you to your younger face view.
2. The popularity of FaceApp can be judged by the fact that its aging filter has been used by celebrities such as Drake, Hillary Duff, Gordon Ramsay, and LeBron James to showcase their future faces on social media. You can also use it for professional purposes such as photography and designing due to its various **artificial intelligence services** such as filters, lens blur, overlays, backgrounds, tattoos, and vignettes.
3. The LGBT and transgender communities are thankful to the FaceApp for introducing features such as gender change transformation.

Moreover, troll lovers and social media addicts love it due to its capability to quickly transform any given image according to the mentioned specifications and background.

Disadvantage:

1. Cybersecurity experts have raised many serious risks regarding the sharing of private information with FaceApp.
 - The privacy policy of FaceApp notifies its service providers and affiliates that it may transfer your data inclusive of private information across any country.
 - This means that your personal information may travel from your country to any other country and jurisdiction around the world across the borders.
 - The particular matter has been a high-level concern especially regarding all the companies based in Russia.
 - The Russian government is known to have a habit of forcing the hands of Russia-based enterprises whenever they sought to have inappropriate access to the data and servers of the enterprise.
2. While using FaceApp your photo can easily be used overseas inclusive of the Russian government who has already been accused of serious interference in the US elections of 2016.
 - You are required to upload their photo to the FaceApp cloud which is purely based in Russia whose laws concerning data protection and privacy are completely different from the world.

- The company has not defined any privacy policy to safeguard user content stored on its servers located in the United States of America.
3. Now the privacy of your data is completely in the hands of United States-based companies such as Amazon and Google. After the scandal involving a breach of personal data by Facebook people have been more aware and concern regarding their private information and so is in the case of facial recognition app FaceApp.

Comparison Between Faceapp vs Replika:

Faceapp:

- Editor options of adding an impression,
- Make-up
- Smiles
- Hair colors
- Hairstyles
- Glasses
- Age or Beards
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- lens blur and backgrounds along with overlays

Tattoos, and vignettes

Replika:

1. **Judgment-free chat anytime you want:** Replika is available to talk to at any time and in any scenario. If you are unhappy or nervous, you can explain your feelings to Replika, who will respond without passing judgment.
2. **Develop your personality alongside the bot:** It aids you in the development of both the bot's and your characters. The more you converse with the bot, the more it will learn and reply appropriately. You will be able to carry on an exciting discussion.
3. **Feel Better:** If you're unhappy, nervous, or in a bad mood, chat to Replika. They'll assist you in producing positive feelings. Replika aids in the development of good thinking, stress management, socialization, and the search for love, among other things.
4. **Have a Good Time Together:** If you're bored, Replika is always there to play games, share memes, sketch, and create tales with.

5. **Chatting with you can teach Replica qualities:** Replika can acquire the following characteristics:

Comparison Between Faceapp vs Makeapp:

Faceapp:

- Editor options of adding an impression,
- Make-up
- Smiles
- Hair colors
- Hairstyles
- Glasses
- Age or Beards
- Filters
- lens blur and backgrounds along with overlays

Tattoos, and vignettes

Makeapp:

- Make or upload a photo. Your application should have access to a smartphone camera and photo gallery.
- Built-in filters. The ability to work on all aspects of the image in detail will attract the audience. ...
- Rotating and changing image size. ...
- Collages and frames. ...
- Save or share.

Comparison Between Faceapp vs Meitu:

Faceapp:

- Editor options of adding an impression,
- Make-up

- Smiles
- Hair colors
- Hairstyles
- Glasses
- Age or Beards
- Filters
- lens blur and backgrounds along with overlays

Tattoos, and vignettes

Meitu:

- Integrate Push Notifications. ...
- High-quality Image Resolution. ...
- Incorporating Search Feature. ...
- Incorporate Social Media Integration. ...
- Use of Responsive App Design. ...
- Simplicity in Design with Uncluttered Elements.

PEAS INFORMATION:

P (Performance)	E (Environment)	A (Actuators)	S (Sensor)
Accurate display of results. High Speed (less loading time).	Tablets, iPads, Smartphones, Laptops/ DesktopsWifi	Result related to search query Can give recommendations for similar searched.	Wi-Fi Sensor

Agent Type: Learning- A learning agent in AI is the type of agent that can learn from its past experiences or it has learning capabilities. It starts to act with basic knowledge and then is able to act and adapt automatically through learning.

Outcomes:

CO1: Understand structure, types and PEAS parameters of an AI (Artificial Intelligence) agent and formalize the problem.

Conclusion (based on the Results and outcomes achieved):

- In this experiment I did an in depth search about various applications of AI.
- I chose one of the application and did a case study on it.
- I researched its PEAS information. I studied its environment types and agent type.

References:

- Stuart Russell and Peter Norvig, Artificial Intelligence: A Modern Approach, Second Edition, Pearson Publication
- Elaine Rich, Kevin Knight, Artificial Intelligence, Tata McGraw Hill, 1999.