

# EMOJIFY:Create your emoji

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# Introduction

We will build a neural network to recognize facial emotions. then we will map these emotions with the corresponding emojis or avatars.

# Way of Approach

- Task 1: Importing Packages
- Task 2: Initializing the training model
- Task 3: Building the network architecture
- Task 4: Training the model
- Task 5: Using webcam predicting the emotions of the user
- Task 6: Mapping with emojis

# Learnings

- learnt about layers in keras
- creating avatars by reffering websites
- different filters for the model
- about GUI

# Tech stack

- LaTeX
- Google Colab
- Libraries: Numpy, keras, cv2

# Challenges

- Uploading the test/train data
- Error during training the model

# Demo code



[https://colab.research.google.com/drive/  
16SlXXN-  
WdJW2PwP5ZNvP8cCGHKDUzCvwg?usp  
=sharing](https://colab.research.google.com/drive/16SlXXN-WdJW2PwP5ZNvP8cCGHKDUzCvwg?usp=sharing)

# Git Repo

The screenshot shows a web browser with two tabs: 'TLikhithasai/Emojify-ml: project' and 'EMOJIFY:Create your emoji'. The address bar shows 'github.com/TLikhithasai/Emojify-ml'. The repository name 'TLikhithasai / Emojify-ml' is displayed. Below the repository name are tabs for 'Code', 'Issues', 'Pull requests', 'Actions', and 'Projects'. The 'main' branch is selected, showing '1 branch' and '0 tags'. A section titled 'TLikhithasai Add files via upload' lists the following files and their commit messages:

File	Commit Message
EMOJIFY ML.pdf	Add files via upload
README.md	Initial commit
anger (1).png	Add files via upload
disguise.png	Add files via upload
fear.png	Add files via upload
happy.png	Add files via upload
neutral.png	Add files via upload
sad.png	Add files via upload
surprise.png	Add files via upload

The Windows taskbar at the bottom shows the Start button, a search bar, and icons for File Explorer, Edge, Chrome, and a folder.



# Statistics

- Some lines of code for training the data
- Created avatars as required for our model

# References

- <https://www.kaggle.com/msambare/fer2013>
- <https://youtu.be/chQNuV9B-Rw>
- <https://www.youtube.com/watch?v=nClG2ailhhk>

THANK YOU