

DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

1. **Project Title: -**

**Facial Emotion Detection** using Neural Networks

# Project Scope: -

# Facial expression for emotion detection has always been an easy task for humans, but achieving the same task with a computer algorithm is quite challenging. With the recent advancement in computer vision and machine learning, it is possible to detect emotions from images. The first-part removes the background from the picture, and the second part concentrates on the facial feature vector extraction. In this paper, we propose a novel technique called facial emotion recognition using convolutional neural networks.

# Requirements: -.

* **Hardware Requirements:**
* A PC With Windows/Linux OS
* Processor With 3.2Hz Speed
* Minimum Of 4GB RAM
* 4GB Graphic Card
* **Software Requirements:**

For Recommendation Models:

* + - * Text Editor (Google-Colab)
      * Anaconda distribution package (PyCharm Editor, Jupyter Notebook)
      * Python libraries

# Project Outcome: -

Research Paper based Project.

# 5. Students Details: -

|  |  |  |
| --- | --- | --- |
| Name | UID | Mobile Number |
| Akshat Pareta | 20BCS6567 | 6376822783 |

**APPROVAL AND AUTHORITY TO PROCEED**

|  |  |  |
| --- | --- | --- |
| Name | Title | Signature (with Date) |
| Vijay Bhardwaj(E12849) | Supervisor |  |

We approve the project as described above, and authorize the team to proceed.