

DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

**PROJECT PROPOSAL**

# Project Title:- Deep Fake Analyser

*Provide a descriptive project title in 15 words or less.*

**🡪**This Project mainly focuses on analyzing the deep fake content. Deepfake content in the form of photos and videos can be used as a destructive means to spread misinformation, harassment and manipulation of data. The program developed will be able to detect the deepfake and manipulated media content.

1. **Project Scope:-**

*Project scope defines the boundaries of a project. Think of the scope as an imaginary box that will enclose all the project elements/activities. It not only defines what you are doing (what goes into the box), but it sets limits for what will not be done as part of the project (what doesn’t fit in the box). Scope answers questions including what will be done, what won’t be done, and what the result will look like.*

1. **WHAT WILL BE DONE?**

**🡪Project elements (deep fake analyzer)**

* Sample Deepfake videos
* Fake to real counter

**🡪Areas this project will be targeting:**

* Deepfake videos
* Deepfake images

**🡪Advantages of this project:**

* It will help journalists and the vast majority of people for awareness of viral deep fake manipulative videos.
* It will also help in the removal of pornographic content and help to prevent defamations of celebrities or other individuals from such content.
* It helps prevent riots in case of virality of such deep fake manipulative videos.
* it helps to prevent financial fraud and scams.

**🡪Concepts to be used in this project:**

* Numpy
* MTCNN
* Scipy
* Pandas
* Matplotlib
* OpenCV
* Model Training
* Object detection
* Classification
* Deep learning

**🡪WHAT WON'T BE DONE?**

* Maximum accuracy won’t be obtained through this program.

1. **WHAT THE RESULT WILL LOOK LIKE?**

* The program will be able to differentiate between which video or photo is deepfake and which is not.

1. **Requirements:-**

*Describe the requirements for the Project. For example, Hardware/ Softwares required for the project.*

**Software Required:**

* Anaconda
* Jupyter

**🡪Hardware Required:**

* PC

## STUDENTS DETAILS

|  |  |  |
| --- | --- | --- |
| **Name** | **UID** | **Signature** |
| Arnav Rajiv Patnaik | 20BCS6658 |  |
| Himanshu Gidwani | 20BCS6637 |  |
| Aryan Gupta | 20BCS6656 |  |
| Sahildeep Kaur | 20BCS6587 |  |

**APPROVAL AND AUTHORITY TO PROCEED**

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

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| --- | --- | --- |
| **Name** | **Title** | **Signature (with Date)** |
| Mr Prabhjot Singh Manocha | Supervisor |  |
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