



MANTHAN
राष्ट्रीय सुरक्षा सर्वोपरि

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Idea Introduction



God's Eye



Tech Stack

1. GAN
2. AI/ML

Resources Used

1. Deep Learning
2. Tensor Flow

Third party
API used:
Deepware



Deepfake Detection-Outline



Problem Statement:

IDENTIFICATION OF ARTIFICIALLY GENERATED DEEPAKE CONTENT.

Our Objective:

To build a solution that can automatically intimate the user if the probability of the content being deepfake is high.

Our Approach Towards Idea



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Azadi Ka
Amrit Mahotsav

Our Approach and our Innovation



Approach

With the rapid development of face synthesis technology, the security threat brought by face tampering is becoming more and more serious.



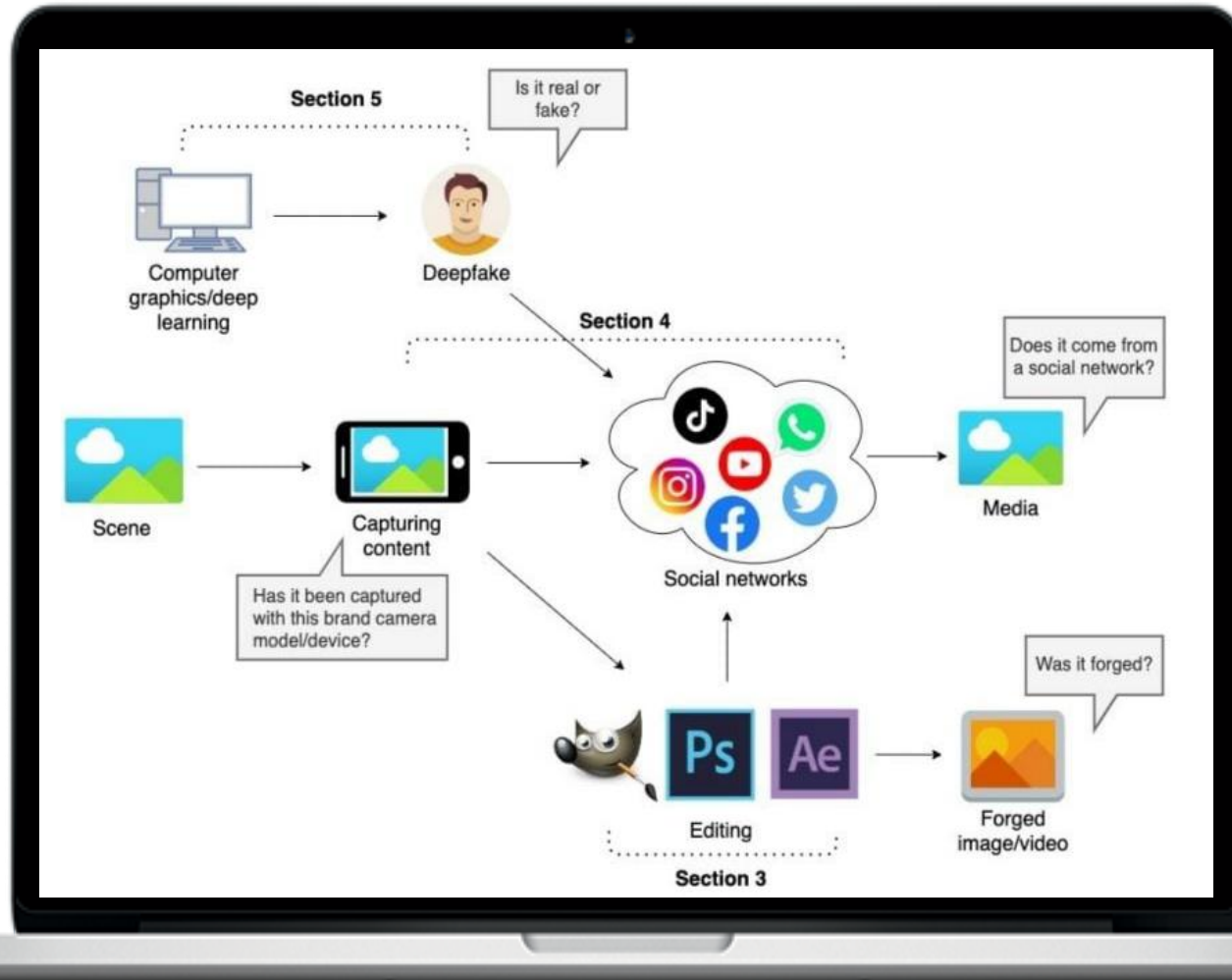
Our Innovation

Our fake detection algorithm will automatically intimate the users if the video is artificially generated.



Requirements

- 1.Tensor Flow
- 2.Deep Learning & AI/ML Algorithms
- 3.GAN



Team Slide



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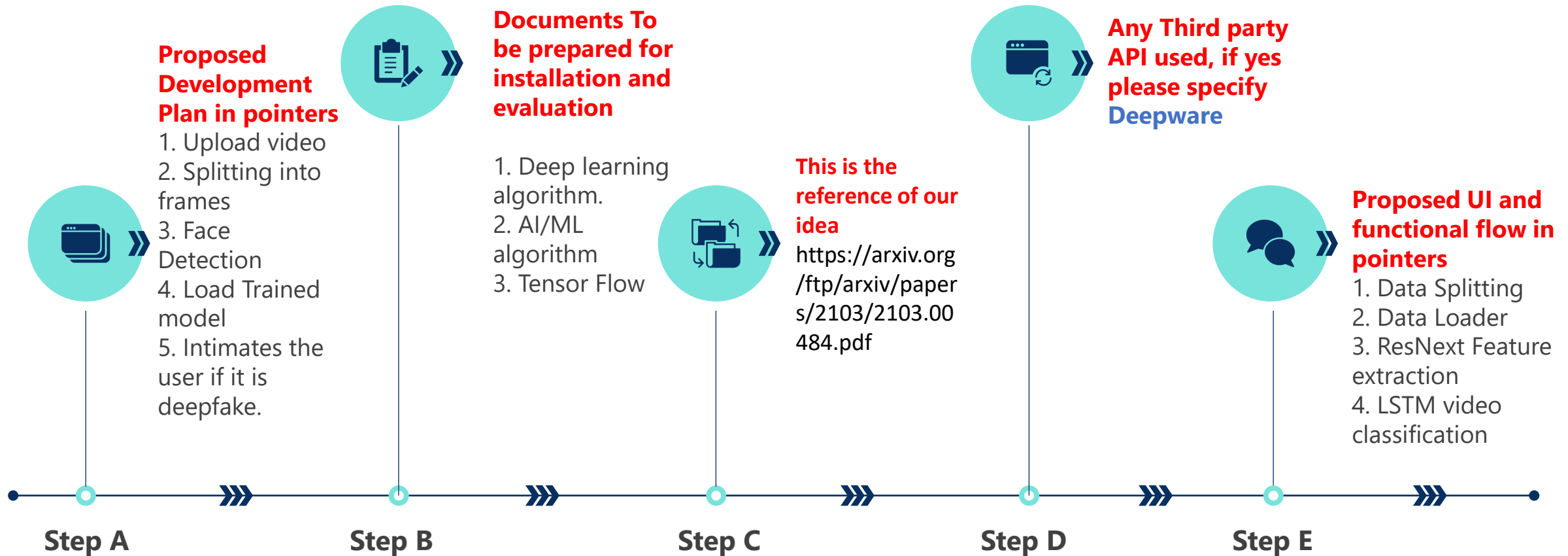
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Development Pipeline



Vision of Innovation/Idea/Solution



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Today we live in a “post-truth” era, where a piece of information or disinformation is utilized by malevolent actors to manipulate public opinion. Disinformation is an active measure that has the potential to cause severe damage. Misinformation is defined as false or inaccurate information that is communicated, regardless of an intention to deceive. This makes us to develop this idea.

Time Duration

Since we are using Deep Learning algorithm to detect the Deepfake , it doesn't require lot of time to complete. It would approximately require a month to give the final product.



Innovation

Apart from detecting whether the content is fake or real, our detection algorithm provides a probability whether it is deep fake or not. If the probability of deepfake is high, it automatically intimates the user about it and restricts the user to upload the content.

Initial Innovation

An innovation process always starts with the search for and finding innovative potentials and the derivation of ideas. First we thought of detecting the deepfake, while the development was going on we came to an innovative idea of intimating the user about their content using our algorithm which will be much more feasible for this problem statement.