Text-To-Video Conversion Of PIB Press Releases Using Generative Adversarial Networks

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Abstract. The growing demand for multimedia content has spurred the need to automate the conversion of textual information into video formats. This paper proposes a novel approach for converting Press Information Bureau (PIB) press releases into videos using Generative Adversarial Networks (GANs). By leveraging GANs, a state-of-the-art deep learning model, we aim to generate video content from textual data, facilitating the dynamic presentation of information from government press releases. This process could significantly enhance the accessibility and engagement of press releases, making them more suitable for modern multimedia platforms. The paper discusses the methodology, implementation, and evaluation of this system, providing a foundation for further research in automatic text-to-video conversion.

Keywords. Text-to-Video, Generative Adversarial Networks (GANs), PIB Press Releases, Deep Learning, Multimedia Content, Automated Video Generation.

1. INTRODUCTION

In today's digital world, there is a growing need for text-to-video conversion due to the massive consumption of video content across platforms like social media, news outlets, and educational platforms. Government agencies like the Press Information Bureau (PIB) frequently publish press releases that provide valuable updates about policies, events, and governmental initiatives. However, these press releases are usually text-based, limiting their reach and engagement. The proposed system uses Generative Adversarial Networks (GANs) to automate the generation of video content from these text-based press releases. The goal of this study is to create a pipeline that converts PIB press releases into compelling video summaries that enhance the dissemination and accessibility of government communication.

2. RELATED WORK

Previous research in the field of text-to-video conversion has primarily focused on generating video content from simple text descriptions or natural language processing tasks. Several studies have explored the use of GANs for generating realistic images and short video clips from textual data. Models like AttnGAN have successfully generated images from textual descriptions, which is a step toward generating videos. However, applying GAN-based models to the domain of formal, structured text such as PIB press releases is a relatively unexplored area. This paper seeks to bridge this gap by focusing on the specific challenges of converting structured governmental text into video content.

3. PROBLEM STATEMENT

While the conversion of text to video holds significant potential, existing methods lack a specialized approach for handling structured, formal texts like press releases. Government press releases contain detailed and structured information that requires careful mapping to meaningful visual content. The challenge is to convert such formal text into engaging and coherent video sequences automatically. This research aims to fill this gap by employing GANs for effective text-to-video conversion, specifically targeting PIB press releases.

4. METHODOLOGY

The methodology can be divided into several key stages:

Data Collection:

We collected a dataset of PIB press releases spanning various topics, including government schemes, international relations, and national events. Each press release was accompanied by relevant multimedia (images, videos, infographics) to aid in training.

TextPreprocessing:

Natural language processing techniques were used to process the raw text of the press releases. This included tasks such as Named Entity Recognition (NER), part-of-speech tagging, and text summarization to extract key information that can guide the video generation process.

Video Generation Using GANs:

The GAN architecture consists of two networks:

Generator:

This component takes the processed text as input and generates corresponding video frames.

Discriminator:

The discriminator evaluates the authenticity of the generated video, distinguishing between real and generated content. Over time, the generator learns to produce more realistic video sequences that align with the textual input.

Post-Processing:

The generated video sequences are then post-processed for better quality, such as enhancing video resolution and synchronizing the visuals with background music or narration.

5. EXPERIMENTS AND RESULTS

We tested our model on multiple PIB press releases covering various topics, and evaluated the generated videos for:

Video Quality:

Visual appeal and coherence of the generated video.

Text-to-Visual Mapping:

How well the generated video represents the information in the press release.

User Engagement:

Feedback from users on the quality and clarity of the generated videos.

The GAN model achieved promising results, producing videos that effectively conveyed the key points from the press releases. The videos were evaluated using both objective metrics like video clarity and subjective metrics such as viewer engagement.

6. DISCUSSION

The results demonstrate that GANs can be successfully applied for converting structured press release text into video content. However, challenges remain in ensuring that the generated videos accurately capture all nuances of the text and present them in an engaging and comprehensible manner. While Random Forests and other machine learning models can predict aspects of the video (like which visuals to include), GANs proved effective in generating the actual video content. Further refinement is needed to improve the synchronization between the text and the video, particularly for more complex or highly technical topics.

7. CONCLUSION

This paper presents a novel application of Generative Adversarial Networks (GANs) for converting PIB press releases into videos. By leveraging deep learning techniques, we have demonstrated that it is possible to automate the generation of multimedia content from structured textual data, making press releases more engaging and accessible. The results are promising, though there is still room for improvement in ensuring that the generated videos match the formality and depth of the original text. This approach could revolutionize government communication by enhancing the reach and impact of press releases through video content.

8. FUTURE WORK

Future work will focus on improving the quality and realism of the generated videos.

This could involve:

Integration of multimedia elements such as voiceovers, background music, and more advanced animations.

Fine-tuning the GAN model to better handle more complex press releases with highly technical language.

Exploring multi-modal GAN architectures that combine text, images, and videos for more realistic and informative video generation.

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