



# YYDS Dance Generator

## Making Dance EASY



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### Introduction

#### Objective:

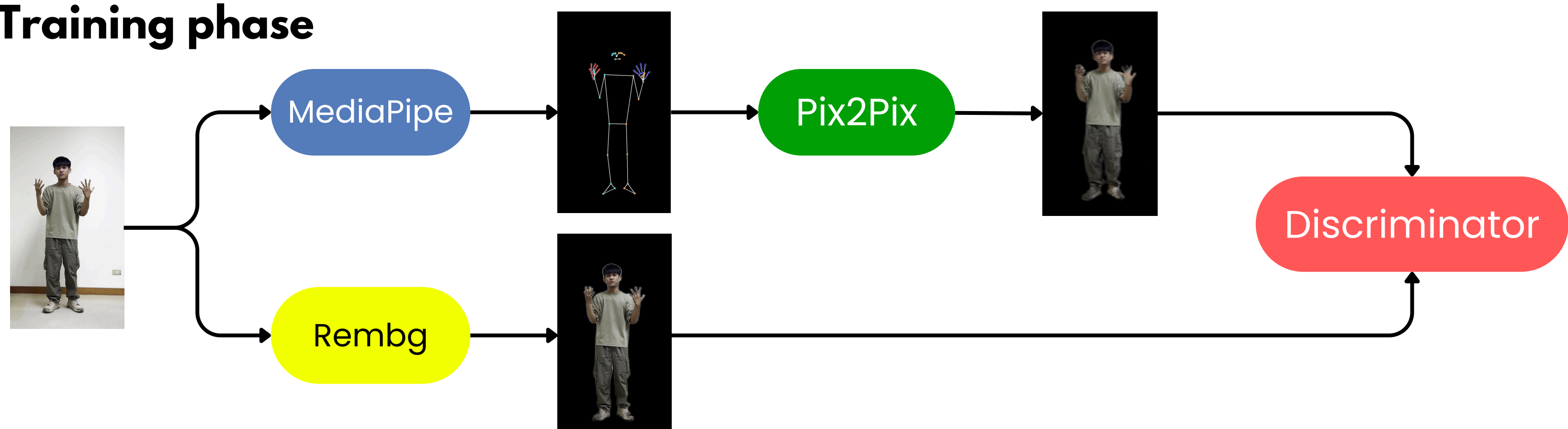
Our project aims to make dance more accessible by creating a user-friendly system that empowers individuals to generate personalized dance videos regardless of their dancing proficiency or inhibitions.

#### Background:

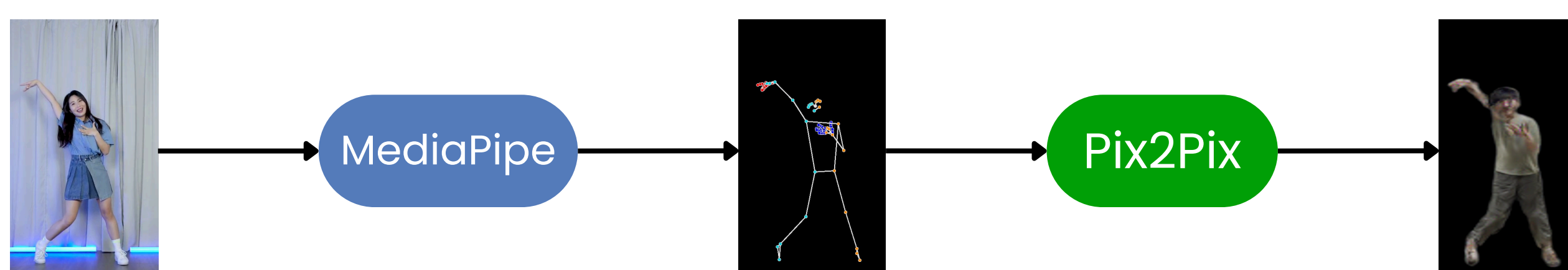
Dancing is a universal form of expression, but many people feel self-conscious or lack the skills to dance confidently in public. Our goal is to break down these barriers and make dancing a fun and inclusive activity for everyone.

### Workflow

#### Training phase



#### Testing phase



### Methodology

**Video Analysis:** We utilize the MediaPipe framework for comprehensive video analysis to extract intricate skeletal movements of the dancer. Additionally, we use the Rembg framework to isolate the dancer from the background, enhancing visual clarity.

**GAN Model Training:** We employ the Pix2Pix Generative Adversarial Network (GAN) for model training. By inputting the skeleton data extracted by Mediapipe, the Pix2Pix GAN generates a corresponding image of the user based on the learned patterns.

### Conclusion

YYDS is a concept that makes dance accessible to everyone by customizing dance experiences for users. We are dedicated to refining and expanding our system to accommodate diverse users and dance styles.

