Immersivaudio: audio generation based on video features.

Group 01

Michele Vitale *ist1111558*

Daniele Avolio *ist1111559*

Teodor Chakarov ist1111601

Abstract—This document is a model and instructions for Lagarantees. This and the IEEEtran.cls file define the components of your paper [title, text, heads, etc.]. *CRITICAL: Do Not Use Symbols, Special Characters, Footnotes, or Math in Paper Title or Abstract.

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I. INTRODUCTION

The topic of media generation has been exponentially growing during the last few years. Since the release of models and services based on state-of-art AI techniques, such as StableDiffusion and ChatGPT, it has been frequent to have media generative applications, with the most important part being that they can be easily accessed even by users that do not have competences and knowledge on Artificial Intelligence. Our proposal is a pipeline composed of different models, trained or open-wheigths, to generate audiovisive multimedia.

II. PROBLEM DESCRIPTION

Main goal of our project is to provide a Che vogliamo fare

III. PROBLEM IMPORTANCE

Persone ipovedenti o cieche Audio enhancer per contenuti (video di persona che parla, musica di sottofondo aggiunta in post)

IV. ARCHITECTURE

architecture schema picture

A. Feature extraction

video -> features extraction

B. Prompt enhancer

features -> well constructed prompt

C. Audio generator

prompt -> generated audio

D. Reconstructor

video + audio − > output multimedia

REFERENCES

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 G. Eason, B. Noble, and I. N. Sneddon, "On certain integrals of Lipschitz-Hankel type involving products of Bessel functions," Phil. Trans. Roy. Soc. London, vol. A247, pp. 529–551, April 1955.