Video Summarization with ImageNet and K-means with MLOps

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Abstract

This project is about video summarization using the ImageNet VGG16 feature extraction and using the K-means clustering to group the similar features to summarize the video. This project also demonstrates using multistage Docker to bundle the app to be run and deployed on any machine or server. The developed model is served through the Streamlit which is creates the web app for the user to upload video and download the summarized video. This project uses the poetry to install and manage the dependencies.

Keywords: Deep Learning, ImageNet, VGG16, OpenCV2, Docker, Poetry, Streamlit

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References

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[Table Title]

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| Column Head | Column Head | Column Head | Column Head | Column Head |
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| Row Head | 123 | 123 | 123 | 123 |
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