

AI, Action Insight: The Art of Sports Video Data Science

Project Description

This project embarks on a cutting-edge journey to transform sports video content into a rich source of actionable metadata. Employing state-of-the-art technologies, this project will focus on identifying, classifying, and extracting key sports information from video content. Initial phases will concentrate on developing sport-specific models for high-precision data such as action recognition and player identification, with an overarching goal to evolve towards a partially sport-agnostic solution. The endgame is a comprehensive, sport-agnostic database, brimming with insights, which will serve as a goldmine for crafting new and captivating sports narratives.

Project Goals

- **Sophisticated Video Analysis:** Develop advanced models to extract pertinent information from sports video content, utilizing the latest advancements in video processing and computer vision.
- **Dual Focus Approach:** Prioritize the creation of sport-specific models while also exploring avenues for a partially sport-agnostic framework.
- **Rich Metadata Database:** Aim to construct a database that stores extracted data suitable for various applications in sports content creation.
- **Performance Evaluation Tools:** Include tools within the system for continuous assessment and refinement of the models, ensuring high accuracy and relevancy of the extracted metadata.

Requirements

- **Technical Expertise:** Knowledge of Python or equivalent programming language and familiarity with data processing libraries.
- **Analytical Abilities:** Expertise in conducting detailed investigations of data, employing relevant analytical tools.
- **Nice to Have – Computer vision knowledge:** Familiarity with computer vision techniques and related methodologies.

Deltatre Innovation Lab

[Deltatre](#) has been working in the sport industry for more than 30 years, trusted by the world's best-known sport's governing bodies, federations, and leagues. It develops a wide range of solutions for the sport businesses from OTT platforms to digital products and data services.

In 2019 the Deltatre Innovation Lab was created for bringing innovation inside the company. It specializes in identifying and collaborating on initiatives to shape how sports, media and entertainment are delivered and consumed by the fans of tomorrow. The primary areas we focus on are Technology, AI (Artificial Intelligence), and Machine Learning.

The project will be part of our activities and we will provide support.