

With our flagship *DataInFormationSM* suite of solutions for Image Labeling, Data Annotation, NLP Calibration and Form Data Capture, Liberty Source is proud to serve a wide range of clients across many industry verticals. Our *Solution Briefs* provide a snapshot of the challenges clients bring to us, and the outcomes we achieve for them.

Gaming Industry Sentiment Review

Industry	Capital Markets	Data Type	Video
Project Duration	3 Months	Ongoing?	Yes

Challenge

An investment firm needed to categorize and collect dynamic data for the gaming industry which was posted online by reviewing video content and metadata.

Solution

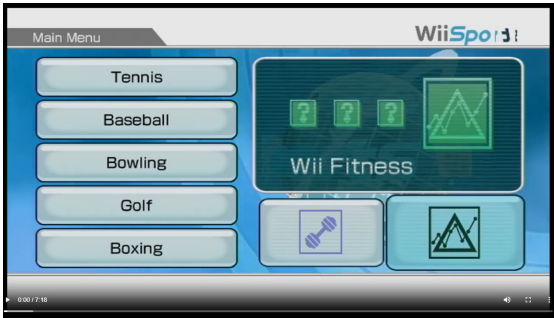
Data Associates identified videos to review based on a pre-specified criteria. Skilled Data Associates viewed videos to obtain context and information as well as to record statistics such as views, dates, and more.

Outcome

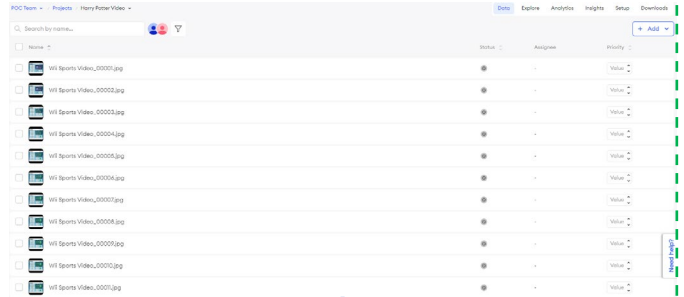
The combination of context from the video itself coupled with the metadata from each file created a full and accurate picture of the impact of a particular video or product at a point in time. This data supported tracking, predictive analytics, and served to verify key assumptions.

Gaming Industry Sentiment Review

Source Data: YouTube Video of Video Game Demo



Video Data Staged within AI-assisted labeling tool for 'first-pass' annotation.



Video Data Reviewed Frame by Frame for accuracy



Output: JSON

```

{
  "video": {
    "id": "10000000000000000000",
    "title": "Wii Sports",
    "description": "Wii Sports",
    "url": "https://www.youtube.com/watch?v=10000000000000000000",
    "duration": "00:01:18"
  },
  "frames": [
    {
      "start": 0,
      "end": 1,
      "label": "Tennis"
    },
    {
      "start": 1,
      "end": 2,
      "label": "Baseball"
    },
    {
      "start": 2,
      "end": 3,
      "label": "Bowling"
    },
    {
      "start": 3,
      "end": 4,
      "label": "Golf"
    },
    {
      "start": 4,
      "end": 5,
      "label": "Boxing"
    },
    {
      "start": 5,
      "end": 6,
      "label": "Wii Fitness"
    }
  ]
}
    
```

```

{
  "video": {
    "id": "10000000000000000000",
    "title": "Wii Sports",
    "description": "Wii Sports",
    "url": "https://www.youtube.com/watch?v=10000000000000000000",
    "duration": "00:01:18"
  },
  "frames": [
    {
      "start": 0,
      "end": 1,
      "label": "Tennis"
    },
    {
      "start": 1,
      "end": 2,
      "label": "Baseball"
    },
    {
      "start": 2,
      "end": 3,
      "label": "Bowling"
    },
    {
      "start": 3,
      "end": 4,
      "label": "Golf"
    },
    {
      "start": 4,
      "end": 5,
      "label": "Boxing"
    },
    {
      "start": 5,
      "end": 6,
      "label": "Wii Fitness"
    }
  ]
}
    
```

Human-In-the-Loop Review improves output accuracy, improves first-pass annotation

