

Towards a Large-scale Video Processing System

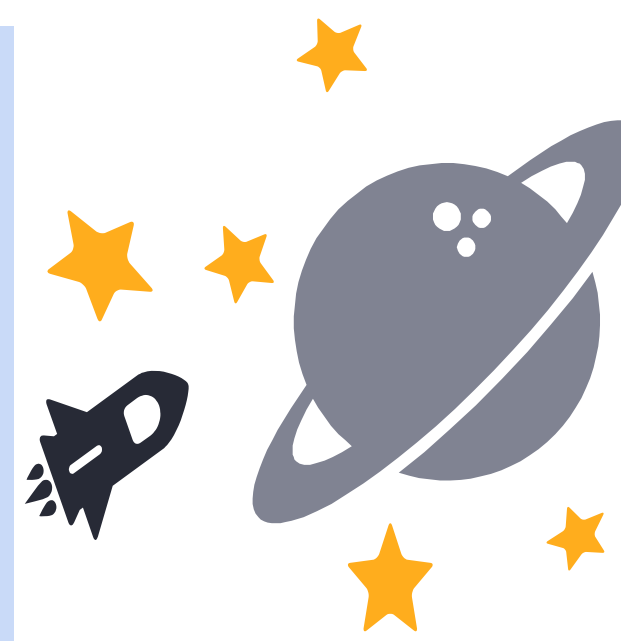
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Abundance of Video Data

- Accounted for 75% of Internet traffic in 2017, with an expected rise to 82% by 2020.
- 1 million views across the Internet per second.
- 1 billion expected street cameras by the year 2021.

Large Scale Processing Solution Declarative Query System

- Designed to inspect large volumes of video data.
- Takes user requests and returns specific frames that contain the given input.
- Real time extractions that save the user both time, and energy.



Current Video Processing Issues

Primitive and Time Consuming

Although video data access continues to increase, current video processing systems still require Human intervention.

My Role

- Development of a web based editing tool for annotating data in the system.
- Includes tools that allow the user to make corrections to the object tracking results.
- Storage of the corrected results within a database.

Key Learning Points/Tools Used

- Object tracking editing tool programmed using Java, JavaScript, HTML, and CSS languages.
- Deep Learning allows the Video Processing System to make its own corrections over time.

System Design

