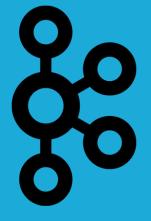
# Sentiment Analysis

in

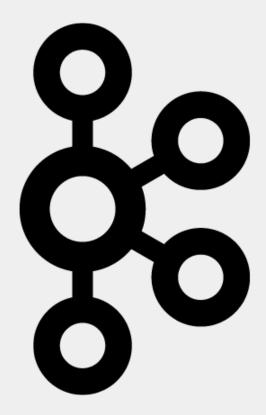




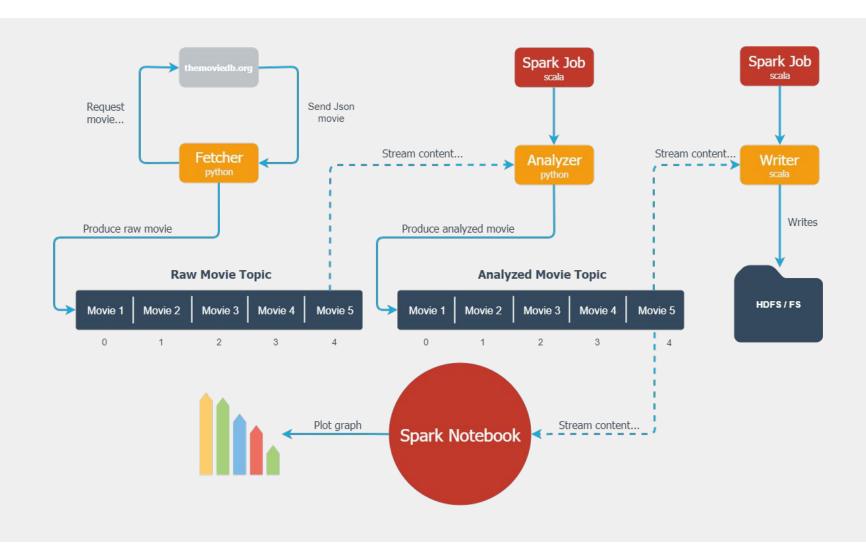
Sarasvati Moutoucomarapoulé David Peicho

# **Pipeline**

- Stack Overview
- Python Fetcher
- Sentiment Analysis
- Notebook



### **Stack Overview**

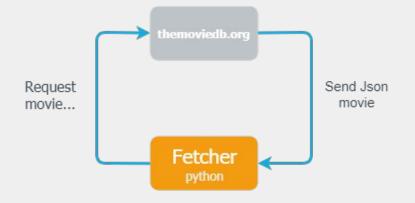


# **Python Fetcher**

Works as a service

Fetches data from https://www.themoviedb.org/

- Fetches multiple data:
  - Title
  - Release date
  - Popularity
  - 0 ...
- Produces to a specific topic



## **Sentiment Analysis: Python Script**

- Trained on Large Review Dataset V1.0
  - 25.000 positive reviews
  - 25.000 negative reviews
- Based on a Linear SVM
  - Input: matrix of TF-IDF features
- 85% of good classification
- Produces to a specific topic

#### **User Reviews**

#### \*\*\*\*\*\* Refreshing!

14 March 2014 | by Doc Johnson (United States) - See all my reviews

This guy doesn't get comedy. Amy schumer is a great comedian, but her show is trying to shove "funny" down your throat so hard that it loses credibility. The same goes for the kroll show. Review is a fresh concept and Andy pulls off laughs without trying so hard you shudder from the douche chills. I felt like it had just enough painful awkwardness without going overboard and relying on it to carry the show. I honestly thought the show was gonna be dumb when i saw the previews but I laughed non stop through the whole first episode. If it was any other host I think the show would be a flop but Andy is a perfect fit and plays the part flawlessly IMO. I give it a MILLION STARS!!!!!!!

User review extracted from imdb com

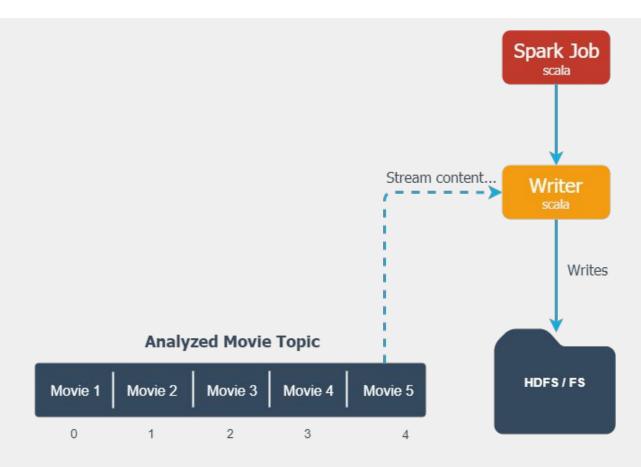
# **Sentiment Analysis: Parallelization**

Unique service is not quick enough…

Solution: use Spark workers

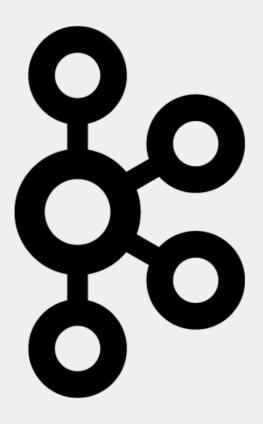
- Analysis applied through the pipe function:
  - Stdin fetches
  - Stdout writes

### **Persistence**





### **Conclusion**



### Conclusion

- Themoviedb API has too few reviews
  - Affects analysis
- Sentiment analysis could be improved
  - Naïve Bayes ?
- Spark Notebook not enough documented...
- Kafka and Spark make a good flow!