

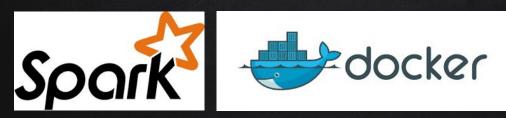
DIPPING INTO THE BIG DATA RIVER

STREAM ANALYTICS AT SCALE

RADEK OSTROWSKI











& kafka





Challenge Solution Summary



Challenge



Let's use streaming data to recommend products!



HTTPS://PBS.TWIMG.COM/MEDIA/BTTEGLHIYAALZJR.JPG



Solution







Expedia Hotel Recommendations

Which hotel type will an Expedia customer book? \$25,000 · 1,974 teams · a year ago



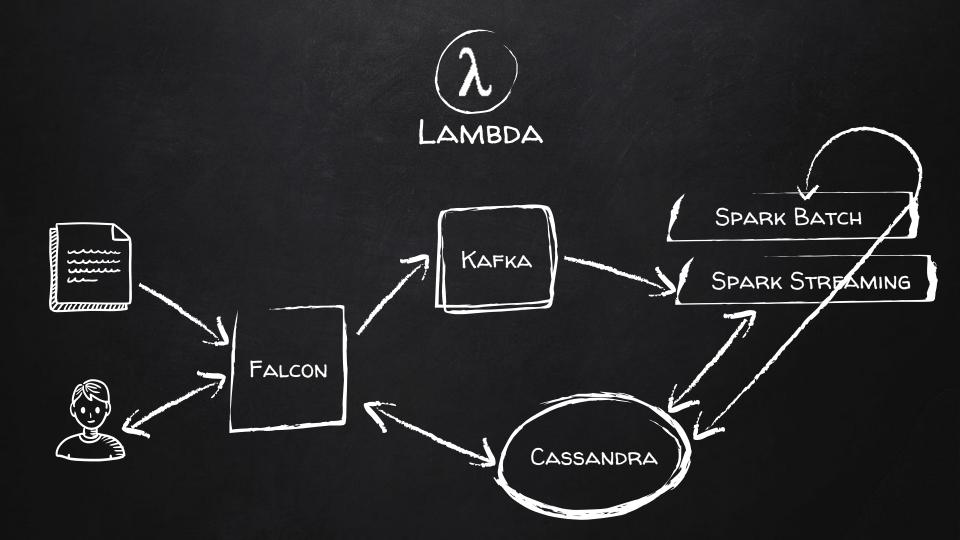
Data Kernels Discussion Leaderboard Rules



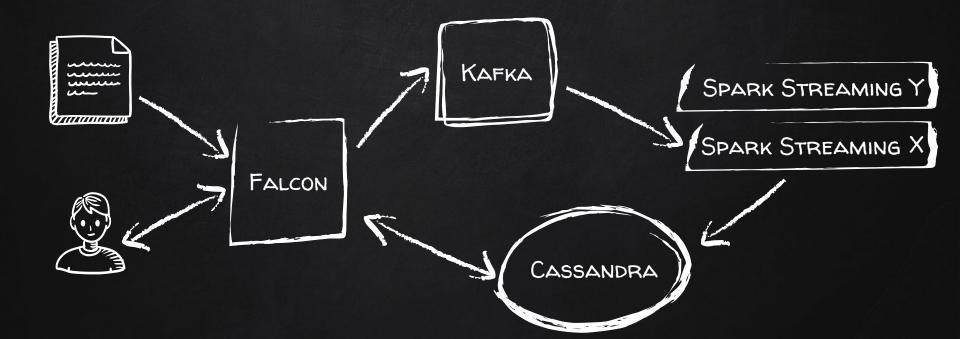
& kafka













Why Lambda?

Batch business as usual, but addition of lightweight stream brings latest information

Why not?

Complexities in maintaining two separate tech stacks/infrastructures/code

Client needs to combine both outputs

Why Kappa?

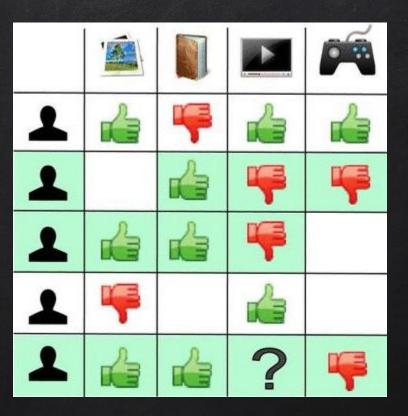
Just one tech stack/infrastructure to maintain

Why not?

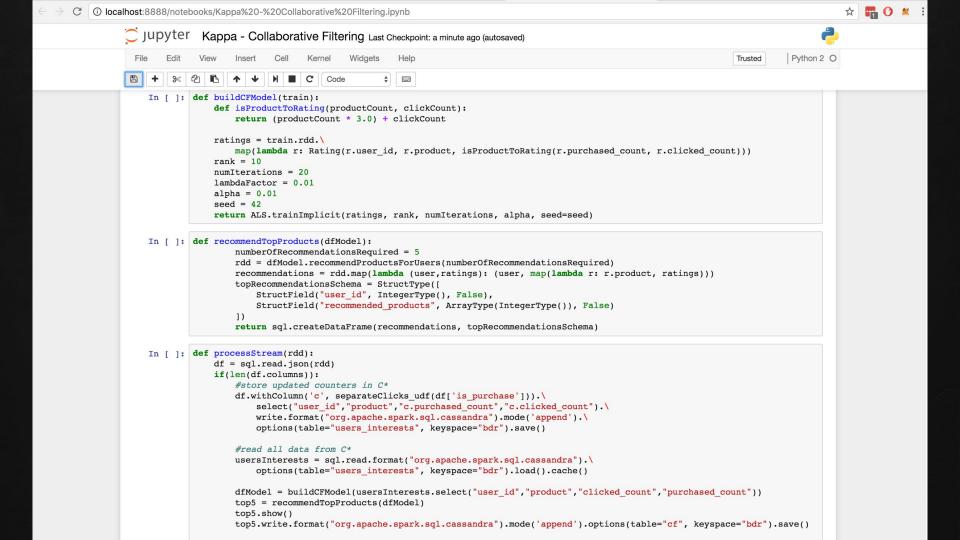
Full on stream process could still be challenging, you'll be working at the cutting edge







HTTPS://GERARDNICO.COM/WIKI/_DETAIL/DATA_MINING/ RATING_COLLABORATIVE_FILTERING.PNG





Summary





Don't just store your data. Take advantage of it when it's in motion.



Kappa vs Lambda will depend on your use case/culture/platform.



Use technologies that scale e.g. SMACK stack.



Docker facilitates quick development and portability.

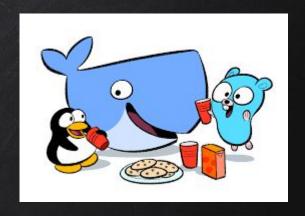


Machine Learning is more accessible than ever before. Use it!



Not sure yet? Run a POC. It's easier than it sounds.

CREDITS



GitHub: http://github.com/radek1st/BigDataRiver
Free presentation template by <u>SlidesCarnival</u>
<u>Unsplash</u> photos by <u>Jérôme Prax</u>, <u>Jeremy Bishop</u> and
<u>Matthew Sleeper</u>

THANKS!

ANY QUESTIONS?

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