THE FUTURE OF MACHINE LEARNING IN PRODUCTION?

(closing remarks)

Christian Kaestner

ARE SOFTWARE ENGINEERS DISAPPEARING?

Tweet

Speaker notes

Andrej Karpathy is the director of AI at Tesla and coined the term Software 2.0

ARE DATA SCIENTISTS DISAPPEARING?

■ Forbes

1,616 views | Apr 7, 2020, 10:10am EDT

AutoML 2.0: Is The Data Scientist Obsolete?



Ryohei Fujimaki Contributor

COGNITIVE WORLD Contributor Group ①

ΑI

Ryohei Fujimaki Ph.D. is founder and CEO of dotData

- It's an AutoML World
- The world of AutoML has been proliferating over the past few years and with a recession looming, the notion of automating the

Ryohei Fujimaki. AutoML 2.0: Is The Data Scientist Obsolete? Forbes, 2020

ARE DATA SCIENTISTS DISAPPEARING?

However, AutoML does not spell the end of data scientists, as it doesn't "AutoSelect" a business problem to solve, it doesn't AutoSelect indicative data, it doesn't AutoAlign stakeholders, it doesn't provide AutoEthics in the face of potential bias, it doesn't provide AutoIntegration with the rest of your product, and it doesn't provide AutoMarketing after the fact. -- Frederik Bussler

SE4AI RESEARCH: MORE SE POWER TO DATA SCIENTISTS?

SE4AI RESEARCH: MORE DS POWER TO SOFTWARE ENGINEERS?





Bogdan Vasilescu

@b_vasilescu

Replying to @p0nk and @AndrzejWasowski

Virtually *everyone* is / will soon be building ML applications. Only few can afford dedicated software engineers to team up with, or SE education for themselves. It would be more inclusive to build SE into the ML processes more fundamentally, so that everyone could build better

12:27 PM · Jun 19, 2020 · Twitter for iPhone



ANALOGY



ANALOGY





(better tools don't replace the knowledge to use them)

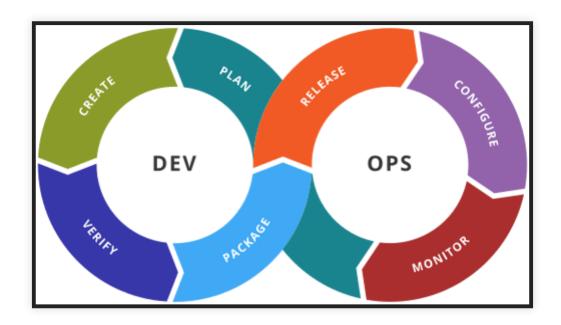
MY VIEW

This is an education problem, more than a research problem.

Interdisciplinary teams, mutual awareness and understanding

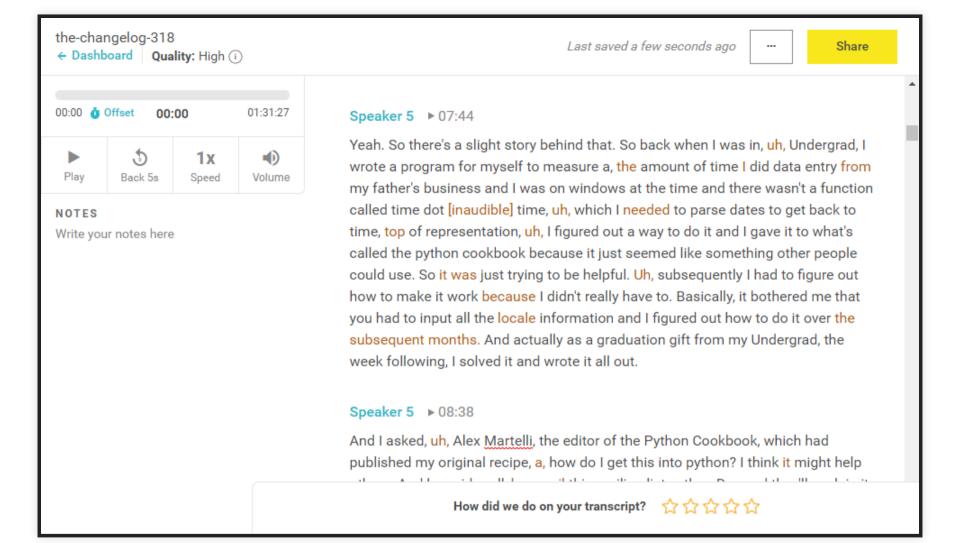
Software engineers and data scientists will each play an essential role

DEVOPS AS A ROLE MODEL



Joint responsibilities, joint processes, joint tools, joint vocabulary

ONE LAST TIME: TRANSCRIPTION



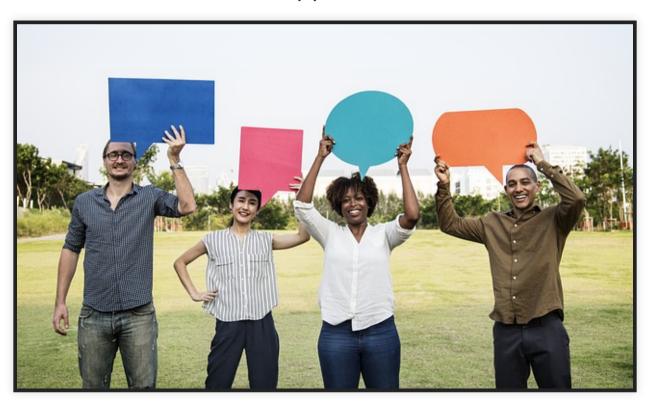
FEEDBACK

SOME THINGS WE TRIED

- Scaling the class!
- Stable TA-team mapping and checkins
- In-class interactions despite large room
- In-class breakouts, posting to slack
- Clear specifications for homework, pass/fail grading, allow resubmission
- Open-ended reading quizzes
- "Individual" assignments and readings in pairs
- Credit for social activities in teams
- Team checkins, peer grading for "team citizenship"
- Slack for coordination and questions

FEEDBACK

- What was useful?
- What could be improved?
- Where did we overdo it with the homework?
- Ideas for better scaling?
- How to better support teamwork?



THANK YOU!