

On the Challenges of Translating NLP Research into Commercial Products

Daniel Dahlmeier ACL 2017 - Vancouver

PUBLIC









Innovation = Novelty + Impact

Challenges to Innovation

- Lack of value focus
- Lack of Reproducibility
- Lack of (Domain) Data
- Overemphasis on test scores
- Difficulty of adoption
- Timelines

Challenges to Innovation

- Lack of value focus
- Lack of Reproducibility
- Lack of (Domain) Data
- Overemphasis on test scores
- Difficulty of adoption
- Timelines

From Business Problem to NLP Problem

The "cheat sheet"



SAP is hiring ML and NLP experts! Come and talk to us at the SAP booth!

sap.com/ml

icn.sap.com/jobs.html



Explore SAP machine learning technology

human capabilities. The business advantages are huge, and the

market is expected to be worth \$47 billion by 2020.

© 2017 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies. See http://global.sap.com/corporate-en/legal/copyright/index.epx for additional trademark information and notices.

Appendix

SAP's vision for enterprise machine learning

SAP Leonardo

Machine Learning

Create your own intelligent infrastructure

Automate Knowledge Work



Transformational HR services



Lights out finance operations



- Self-driving customer service
- Conversational sales bots
- Customer retention insights

Do the Impossible



- Image-based Ariba commerce
- Contextual Concur travel concierge



- Video-aware marketing
- Visual store execution



- Drone and satellite-based asset management
- Vision-enabled manufacturing
 Contextual logistics

SAP Cloud Platform and SAP HANA

Build your intelligent enterprise now

SAP makes machine learning incredibly simple

SAP Assets

76% of the world's transaction revenue touches an SAP system

25 industries

12 lines of business

The world's largest business network



