Data Science News

March 2019

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Google, joining several other American tech companies, announced 10 Indian startups it has invested in
https://www.businessinsider.in/google-will-groom-these-10-indian-startups-that-use-ai-and-machine-learning/articleshow/68384856.cms

Alphabet is using DL to help project wind power generation 36 hours in advance, crucial for the energy grid when it needs to know how much power will come in from heterogeneous sources
https://www.cnbc.com/2019/02/27/alphabets-deepmind-uses-machine-learning-to-predict-wind-power-output.html

Apple acquired a startup which brings personalized news, web, video, etc.
https://www.macrumors.com/2019/03/13/apple-acquires-machine-learning-startup-laserlike/

NVIDIA Buys Mellanox To Bring HPC Scaling To Data Center
https://www.forbes.com/sites/tiriasresearch/2019/03/12/nvidia-buys-mellanox-to-bring-hpc-scaling-to-data-centers/#5f1c623a2b0e

Mozilla releases Iodide, an open source browser tool for publishing dynamic data science
https://venturebeat.com/2019/03/12/mozilla-releases-iodide-an-open-source-browser-tool-for-publishing-dynamic-data-science/

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Facebook has made virtual avatars which look and move like you
https://www.wired.com/story/facebook-oculus-codec-avatars-vr/

Yann Lecun has called for a DL-specific language at a higher level than Python for compiling efficient DL code
https://venturebeat.com/2019/02/18/facebooks-chief-ai-scientist-deep-learning-may-need-a-new-programming-language/

"Backpropogation doesn't correlate to the brain," insists Mike Davies, head of Intel's neuromorphic computing unit while describing his group's neuromorphic approach to neural networks. Lecun has countered these approaches don't offer practical implementations or results
https://www.zdnet.com/article/intels-neuro-guru-slams-deep-learning-its-not-actually-learning/

Yann Lecun at FAIR is researching a new class of semiconductors for DL learning. Some benchmarks show TPUs have not performed better than other competitors, while a NASA startup recently laid off much of its workforce
https://www.bloomberg.com/news/articles/2019-02-18/facebook-s-ai-chief-researching-new-breed-of-semiconductor

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Automated machine learning (AutoML, Auto Keras, TransmogrifAI, MS's NNI, Auto-WEKA, auto-sklearn, etc.) leads to faster model building while democratizing use and increasing implementation. Challenges include limited use cases, explainibility, and a rush to false conclusions
https://searchenterpriseai.techtarget.com/feature/Automated-machine-learning-streamlines-model-building

Generva Allen of Rice University says we should be skeptical of AI until it better captures its uncertainty. One approach centers on taking an algorithm trained on one large dataset and then verifying it against an independent large data set
https://www.sciencenews.org/article/data-scientist-warns-against-trusting-ai-scientific-discoveries

LinkedIn pauses mentioned in the news after ID mixups
https://techcrunch.com/2019/02/28/linkedin-forced-to-pause-mentioned-in-the-news-feature-in-europe-after-complaints-about-id-mix-ups/

Artificial intelligence is going to control on-demand bus services in Japan
https://www.cnbc.com/2019/03/13/artificial-intelligence-to-control-on-demand-bus-services-in-japan.html

IBM's Watson supercomputer recommended 'unsafe and incorrect' cancer treatments, internal documents show
https://www.statnews.com/2018/07/25/ibm-watson-recommended-unsafe-incorrect-treatments/

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Google announces TensorFlow 2.0 Alpha, TensorFlow Federated, TensorFlow Privacy, and the Coral development platform
https://www.xda-developers.com/google-tensorflow-2-0-alpha-tensorflow-federated-tensorflow-privacy-coral-development-platform/

Microsoft has open-sourced some tools for working with Spark https://github.com/Azure/mmlspark

Lyft goes all in on AWS (https://www.businesswire.com/news/home/20190226005070/en/Lyft-All-In-AWS),

New interpretative ML book (https://christophm.github.io/interpretable-ml-book/)

Links

Managing Uber's Data Workflows at Scale https://eng.uber.com/managing-data-workflows-at-scale/

LinkedIn - Feature Management for Productive Machine Learning:
https://www.slideshare.net/DavidStein1/frame-feature-management-for-productive-machine-learning