

# Data Science News

October 2018

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Google launches the What-If Tool, a new feature of the open-source TensorBoard web application, which let users analyze an ML model without writing code. Given pointers to a TensorFlow model and a dataset, the What-If Tool offers an interactive visual interface for exploring model results.

<https://ai.googleblog.com/2018/09/the-what-if-tool-code-free-probing-of.html>

In open source, that would include tools such as H2O AutoML, auto-sklearn (along with it's predecessor, Auto-WEKA) and TPOT. H2O.ai's Driverless AI is a platform that's geared towards IID tabular data, but also supports time-series data and raw text. <https://www.h2o.ai/blog/the-different-flavors-of-automl/>

Netflix has described how they are working on interactive notebooks which can be used for data exploration, etc.

<https://medium.com/netflix-techblog/notebook-innovation-591ee3221233>

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Databricks has announced some open-source MLFlow examples for those trying to learn.

<https://databricks.com/blog/2018/08/16/introducing-mlflow-apps-a-repository-of-sample-applications-for-mlflow.html>  
!

Google has created a dataset search tool for finding just the right dataset for your problem

<https://toolbox.google.com/datasetsearch>

Hiring data indicates that Apple is building a deep learning AI team

<https://media.thinknum.com/articles/apple-building-deep-learning-ai-team/>

“Shortly, we will hold a series of public design reviews covering the planned changes,” Martin Wicke, a software engineer for Google Brain and a key member of the TensorFlow team, wrote in an August 13 posting to a Google Group devoted to TensorFlow 2.0 updates.

<https://insights.dice.com/2018/08/17/google-tensorflow-promises-refined-machine-learning/>

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TensorFlow.js puts machine learning in the browser. The WebGL-accelerated library works with the Node.js server-side JavaScript runtime, but isn't on par with Tensorflow's Python API

<https://www.infoworld.com/article/3305340/tensorflow/tensorflowjs-puts-machine-learning-in-the-browser.html>

Baidu announces EZDL a way to build custom machine learning models using a drag-and-drop interface.

<https://www.hpcwire.com/2018/09/06/baidu-rolls-deep-learning-platform/>

A network of AI agents autonomously developed not only an in-group preference for other agents that were similar to themselves but also an active bias against those that were different.

<https://futurism.com/artificial-intelligence-prejudiced/>

Japan developing 'pre-crime' artificial intelligence to predict money laundering and terror attacksRead more at <https://www.scmp.com/news/asia/east-asia/article/2162239/japan-developing-pre-crime-artificial-intelligence-predict-money#r3KXBfdjvh9OMDrT.99>

<https://www.thestar.com.my/news/regional/2018/09/01/japan-developing-precrime-artificial-intelligence-to-predict-money-laundering-and-terror-attacks/>

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Google announced Dopamine, a research framework for fast prototyping of reinforcement learning algorithms. <https://github.com/google/dopamine>

JAMA paper warns of the potential racial disparities that could come from relying on machine learning for skin-cancer screenings.

<https://www.theatlantic.com/health/archive/2018/08/machine-learning-dermatology-skin-color/567619/>

Bias In Maternal AI Could Hurt Expectant Black Mothers

[https://motherboard.vice.com/en\\_us/article/ywkk75/bias-in-maternal-ai-could-hurt-expecting-black-mothers](https://motherboard.vice.com/en_us/article/ywkk75/bias-in-maternal-ai-could-hurt-expecting-black-mothers)

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The CFP for #SparkAISummit in San Francisco is open! Submit by October 21st to be considered! <https://databricks.com/sparkaisummit/north-america>

Cloudera and Hortonworks merger means Hadoop's influence is declining  
<https://venturebeat.com/2018/10/06/cloudera-and-hortonworks-merger-means-hadoops-influence-is-declining/amp/>

Jeremy Howard: “AutoML is the wrong way to go... it should be AugmentML”  
<https://pbs.twimg.com/media/Doin39bUcAETF-R.jpg>

Microsoft open-sources Infer.Net machine learning  
<https://www.developer-tech.com/news/2018/oct/08/microsoft-infer-net-machine-learning-framework/>

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Amazon scraps a secret A.I. recruiting tool that showed bias against women

<https://www.developer-tech.com/news/2018/oct/08/microsoft-infernet-machine-learning-framework/>

Chinese tech giant Huawei unveils A.I. chips, taking aim at giants like Qualcomm, Nvidia, Google

<https://www.cnbc.com/2018/10/10/huawei-unveils-ai-chips-taking-aim-at-giants-like-qualcomm-and-nvidia.html>

The American College of Radiology (ACR) has launched the Data Science Institute (DSI) to encourage FDA approval of AI in radiology

<http://www.diagnosticimaging.com/di-executive/artificial-intelligence-radiology-friend-or-foe>

Microsoft buys visual drag-and-drop interface which allows users to develop deep learning (DL) tools

<https://www.zacks.com/stock/news/323369/microsoft-msft-adds-deep-learning-ai-tools-with-lobe-buyout>