

Agenda

- Make with H2O
- Explainable AI - Why
- Explainable AI - How
- Live Demonstration
- How to Get Started
- Q&A

- **First Tuesday** of the Month
 - Live Demo / Workshop
 - Get hands-on experience during/after the event
- Want to share your experience with H2O?
 - Get in touch → joe@h2o.ai

Explainable AI - Why

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Aiming for truth, fairness, and equity in your company's use of AI

By: Elisa Jillson | Apr 19, 2021 9:43AM

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Advances in artificial intelligence (AI) technology promise to revolutionize our approach to medicine, finance, business operations, media, and more. But research has highlighted how apparently "neutral" technology can produce troubling outcomes – including discrimination by race or other legally protected classes. For example, COVID-19 prediction models can help health systems combat the virus through efficient allocation of ICU beds, ventilators, and other resources. But as a [recent study](#) in the Journal of the American Medical Informatics Association suggests, if those models use data that reflect existing racial bias in healthcare delivery, AI that was meant to benefit all patients may worsen healthcare disparities for people of color.

[An official website of the European Union](#) · [How do you know?](#)



English

[Home](#) » [Press corner](#) » [Europe fit for the Digital Age: Artificial Intelligence](#)

[Available languages:](#) English

[Press release](#) | [21 April 2021](#) | [Brussels](#)

Europe fit for the Digital Age: Commission proposes new rules and actions for excellence and trust in Artificial Intelligence

Page contents

[Top](#)

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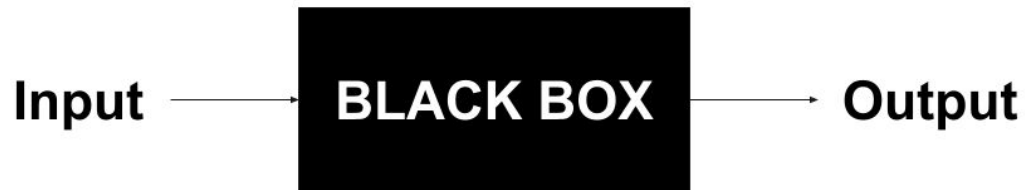
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The Commission proposes today new rules and actions aiming to turn Europe into the global hub for trustworthy Artificial Intelligence (AI). The combination of the first-ever [legal framework on AI](#) and a new [Coordinated Plan with Member States](#) will guarantee the safety and fundamental rights of people and businesses, while strengthening AI uptake, investment and innovation across the EU. New rules on [Machinery](#) will complement this approach by adapting safety rules to increase users' trust in the new, versatile generation of products.

European Commission
https://ec.europa.eu/commission/presscorner/detail/en/IP_21_1682

Explainable AI - Why

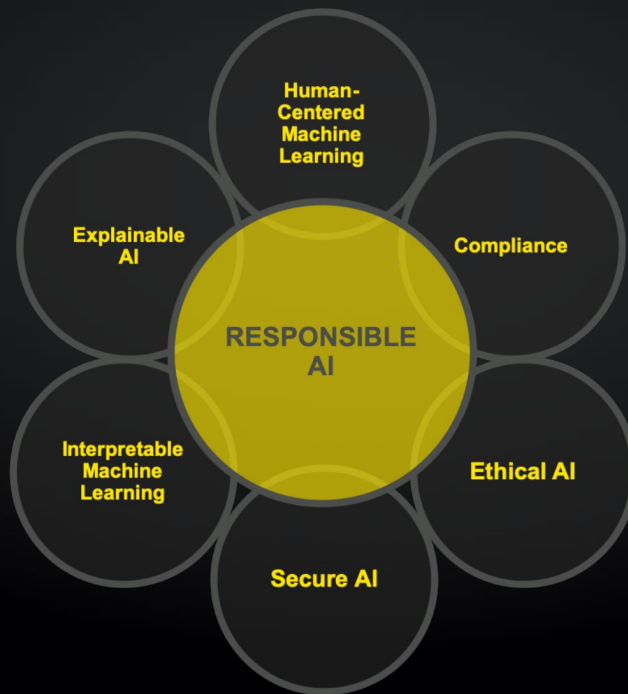


For example, a machine learning model that makes predictions but you don't know how it works



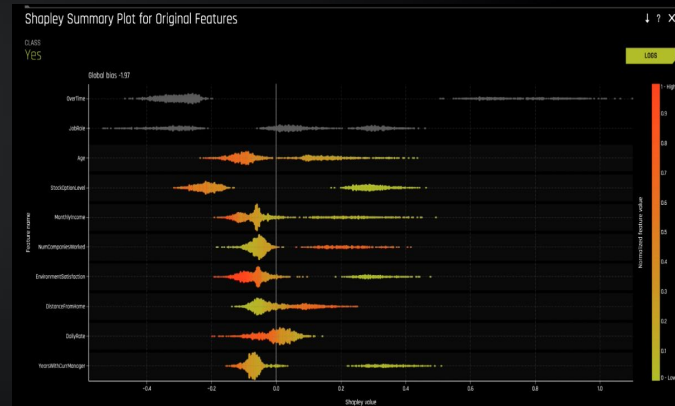
Explainable AI - How

H2O.ai has been a pioneer in Explainable AI and Machine Learning Interpretability for several years



Explainable AI - How

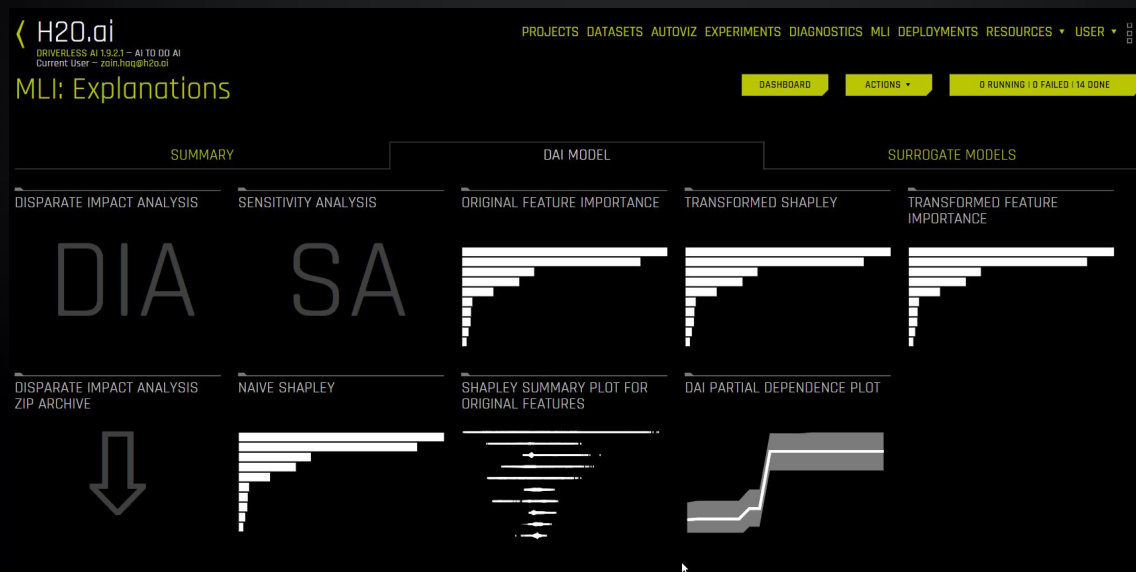
Machine Learning Interpretability Tools in H2O Driverless AI



Shapley Summary Plots
The latest addition to the H2O.ai's
Explainability Arsenal

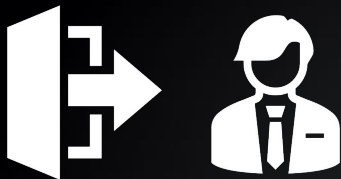
Shapley Summary Plots

- The Shapley summary plot combines feature importance with feature effects.
- It shows original features versus their local Shapley values on a sample of the dataset.



Live Demo - Employee Attrition

H₂O.ai



Predicting
Attrition
(Yes/No)

Dataset

IBM HR Analytics Employee Attrition & Performance

Predict attrition of your valuable employees

pavansubhash • updated 4 years ago (Version 1)

Data Tasks (1) Code (495) Discussion (27) Activity Metadata

Download (223 KB) New Notebook

Age	Attrition	BusinessTravel	DailyRate	Department	DistanceFromHome	Education	EducationField
41	Yes	Travel_Rarely	1102	Sales	1	2	Life Sciences
49	No	Travel_Frequently	279	Research & Development	8	1	Life Sciences
37	Yes	Travel_Rarely	1373	Research & Development	2	2	Other
33	No	Travel_Frequently	1392	Research & Development	3	4	Life Sciences
27	No	Travel_Rarely	591	Research & Development	2	1	Medical
32	No	Travel_Frequently	1005	Research & Development	2	2	Life Sciences
59	No	Travel_Rarely	1324	Research & Development	3	3	Medical
30	No	Travel_Rarely	1358	Research & Development	24	1	Life Sciences
38	No	Travel_Frequently	216	Research & Development	23	3	Life Sciences
36	No	Travel_Rarely	1299	Research & Development	27	3	Medical
35	No	Travel_Rarely	809	Research & Development	16	3	Medical
29	No	Travel_Rarely	153	Research & Development	15	2	Life Sciences
31	No	Travel_Rarely	670	Research & Development	26	1	Life Sciences
34	No	Travel_Rarely	1346	Research & Development	19	2	Medical
28	Yes	Travel_Rarely	103	Research & Development	24	3	Life Sciences
29	No	Travel_Rarely	1389	Research & Development	21	4	Life Sciences
32	No	Travel_Rarely	334	Research & Development	5	2	Life Sciences
22	No	Non-Travel	1123	Research & Development	16	2	Medical
53	No	Travel_Rarely	1219	Sales	2	4	Life Sciences
38	No	Travel_Rarely	371	Research & Development	2	3	Life Sciences
24	No	Non-Travel	673	Research & Development	11	2	Other
36	Yes	Travel_Rarely	1218	Sales	9	4	Life Sciences
34	No	Travel_Rarely	419	Research & Development	7	4	Life Sciences
21	No	Travel_Rarely	391	Research & Development	15	2	Life Sciences
34	Yes	Travel_Rarely	699	Research & Development	6	1	Medical

<https://www.kaggle.com/pavansubhasht/ibm-hr-analytics-attrition-dataset>

Demo

H2O AI Hybrid Cloud



How to Get Started

H₂O.ai

- H2O AI Hybrid Cloud
- No installation required
- 14-day free trial
- www.h2o.ai/free
- Try our demo AI apps
- Get hands-on experience

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How to Get Started

H₂O.ai

- Launch Driverless AI
- Import Datasets
- Run Experiments
- Explain Results
- Try it today
- www.h2o.ai/free

Enterprise Steam
v1.8.2

Signed in as: jofai.chow@h2o.ai

- H2O
- Driverless AI
- Documentation
- Configurations

Home > Driverless AI > Instances > Launch

LAUNCH DRIVERLESS AI INSTANCE

SELECT PROFILE

default-driverless-kubernetes

INSTANCE NAME	<input type="text" value="driverless_ai_demo"/>	required must meet requirements	?
VERSION	<input type="text" value="1.9.2.1"/>	required	?
NUMBER OF CPUS	<input type="text" value="4"/>	required min: 1, max: 7	?
NUMBER OF GPUS	<input type="text" value="0"/>	required min: 0, max: 0	?
MEMORY [GB]	<input type="text" value="16"/>	required min: 4, max: 48	?
STORAGE [GB]	<input type="text" value="128"/>	required min: 10, max: 1024	?
MAXIMUM IDLE TIME [HRS]	<input type="text" value="2"/>	required min: 1, max: 24	?
MAXIMUM UPTIME [HRS]	<input type="text" value="24"/>	required min: 1, max: 24	?
TIMEOUT [S]	<input type="text" value="300"/>	required	?

Launch Instance

DRIVERLESS AI INSTANCES

LAUNCH INSTANCE

NAME	STATUS	VERSION	STARTED AT	Refresh
 driverless_ai_demo	● Running	1.9.2.1	May 3, 2021 11:57 AM	Actions

H2O AI Hybrid Cloud

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www.h2o.ai/free

