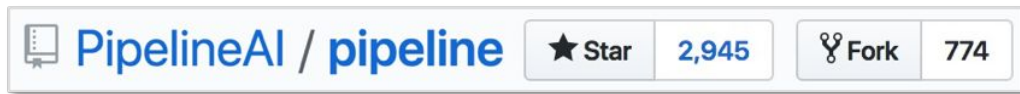




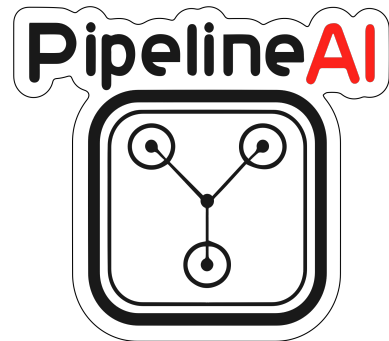
Continuous Machine Learning: TensorFlow, Kafka, & PipelineAI

RE-WORK Deep Learning Conf

London, Sept 21, 2018



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Who is This Bloke?



Chris Fregly

CEO & Founder @ PipelineAI



PipelineAI Advanced Spark and TensorFlow Meetup (London) *Meetup*

London, United Kingdom · 1,534 members ·

9

OCT

Tuesday, October 9, 2018, 6:30 PM

**Continuous ML in Prod with PipelineAI,
TensorFlow, Kafka + GPU + Stateful K8s**

NETFLIX  databricks



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University

slideshare.pipeline.ai
youtube.pipeline.ai

quickstart.pipeline.ai
community.pipeline.ai



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Things I've Learned About the U.K.



88 VERY BRITISH PHRASES THAT WILL CONFUSE ANYBODY WHO DIDN'T GROW UP IN THE UK **#1 You OK ?!**

Pippa (given name)

From Wikipedia, the free encyclopedia

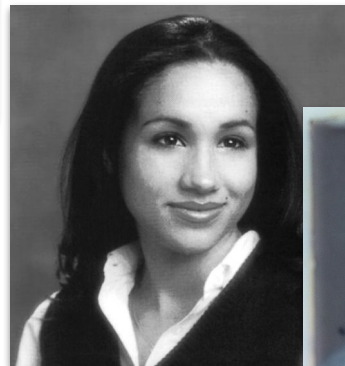
For other uses, see [Pippa](#).

Pippa is an [English language diminutive feminine given name](#), as well as a [nickname](#) for [Philippa](#), comes from the [Greek](#) *philein* (to love) and *hippos* (horse). People with the name Pippa include:

- [Pippa Black](#) (b. 1982), Australian actress
- [Pippa Duncan](#), British Royal Navy officer
- [Pippa Funnell](#) (b. 1968), British equestrienne
- [Pippa Guard](#) (b. 1952), British actress
- [Pippa Haywood](#) (b. 1961), English actress
- [Pippa Middleton](#) (b. 1983), English socialite, sister of Catherine, Duchess of Cambridge
- [Pippa Scott](#) (b. 1935), American actress
- [Pippa Steel](#) (1948–1992), German actress
- [Rosalba Pippa](#), a musical performer



Northwestern
University



Meghan
Markle,
Class of
2003



Chris
Fregly,
Class of
2003 B.C.

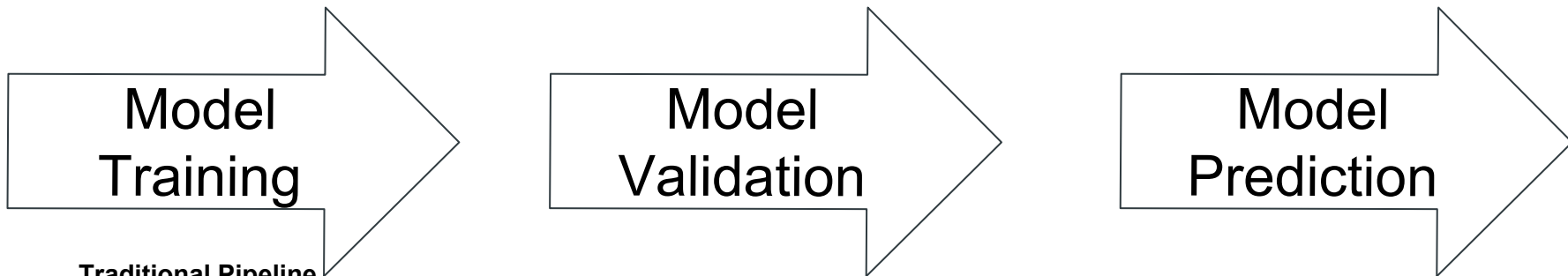


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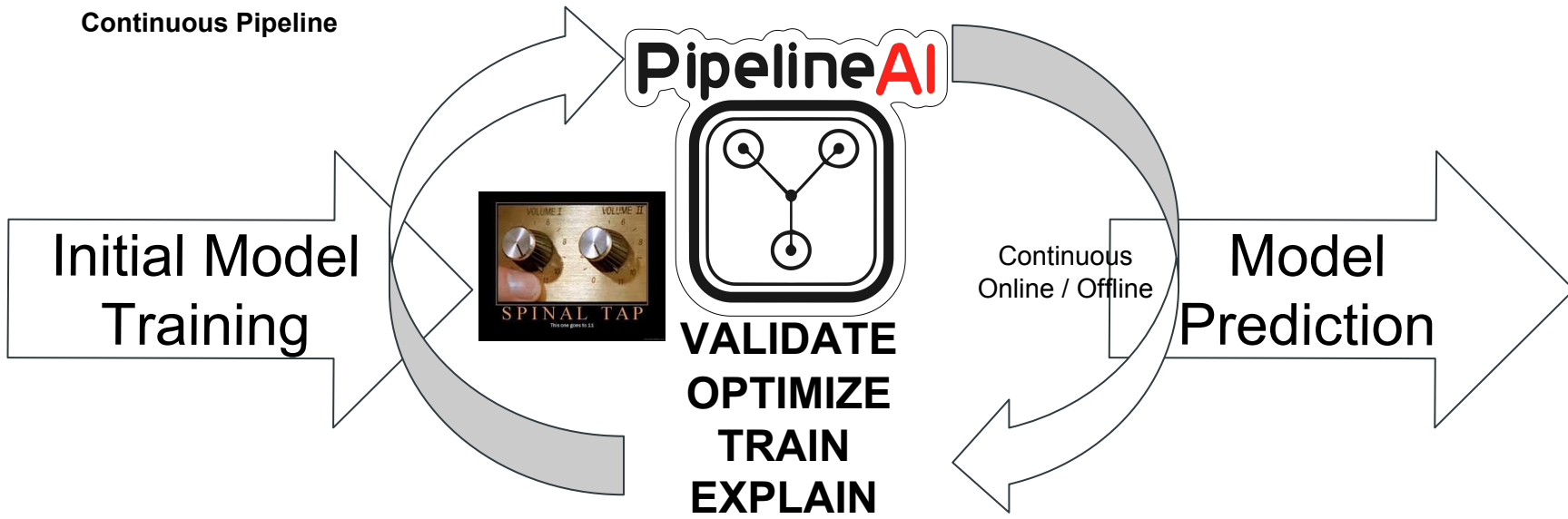
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Continuous ML Production Pipeline



Continuous Pipeline





Why Now?



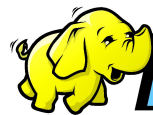
scikit

learn



ML **1.0** Research / Offline

ML **2.0** Big Data / Offline



hadoop

ML **3.0** Production / Online



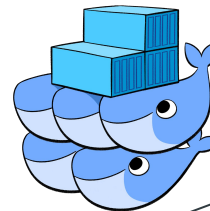


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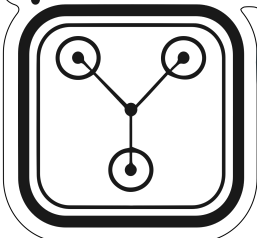
PipelineAI Optimize

PipelineAI



Goal: Generate New Models to
Deploy & Compare

PipelineAI



OPTIMIZE

Generate New Models

Optimize Runtimes

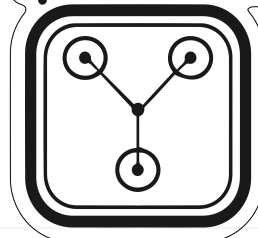
Compare Models

Deploy Models

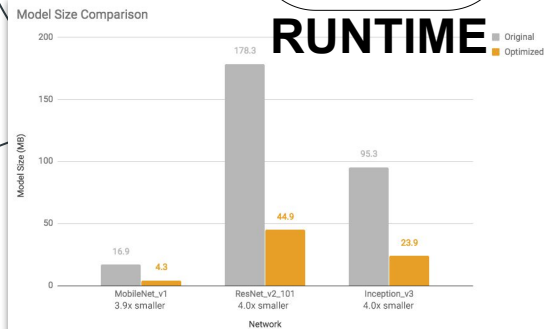
Production Model

Research Model

PipelineAI

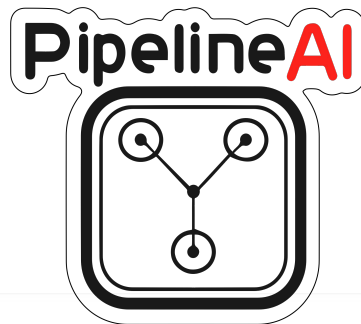
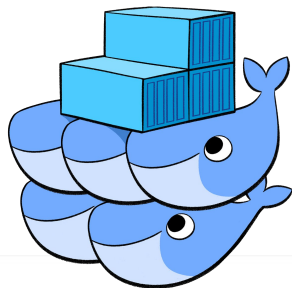


RUNTIME



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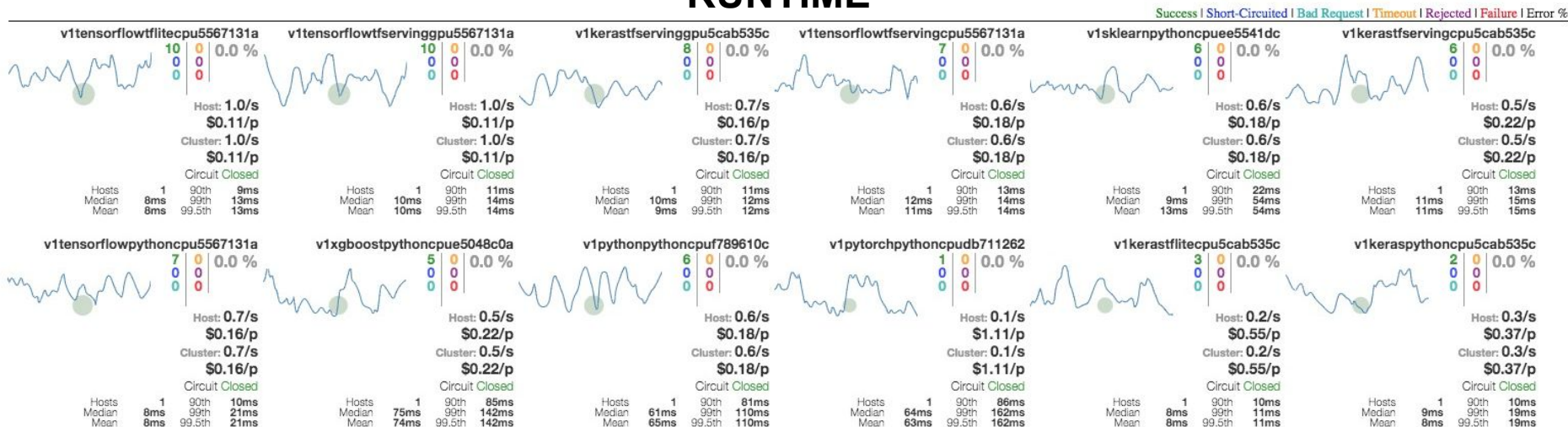
Generated Models & Runtimes



Any Cloud,
Any Hardware,
Any Language,
Any Framework

Real-Time Metrics

RUNTIME





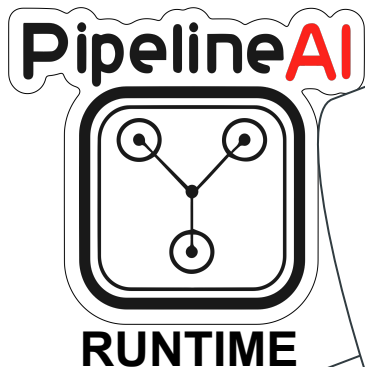
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PipelineAI Runtime

Goal: *Continuously Improve
Model Relevancy*



Raw Inputs

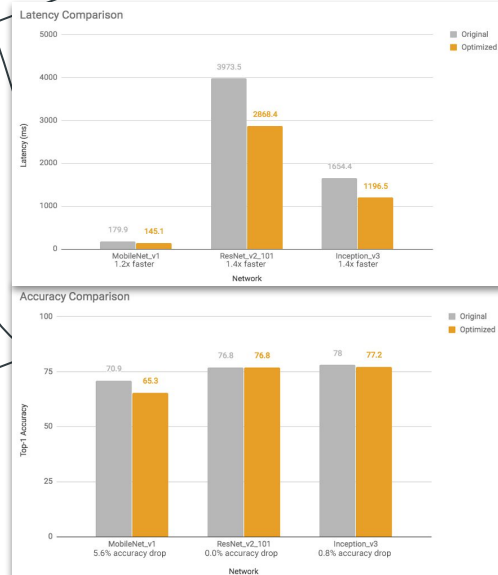
Validate Inputs

Geo-Routing

Trace & Explain

Detect Bias/Decay

Prediction





Traction

120,000
Users

100% Organic
\$0 Acquisition Cost

3,000
Community
Edition
Users

50
Webinars
Per Year

ML Engineers
App Developers
Data Scientists

95,000
Global
Meetup
Members

100
Speaking
Events
Per Yr

3,000
GitHub
Stars

Direct Funnel to
Paid(\$)
Editions



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PipelineAI



Global Traction (GitHub)

85%

North America

3%

Asia

12%

Europe

1%

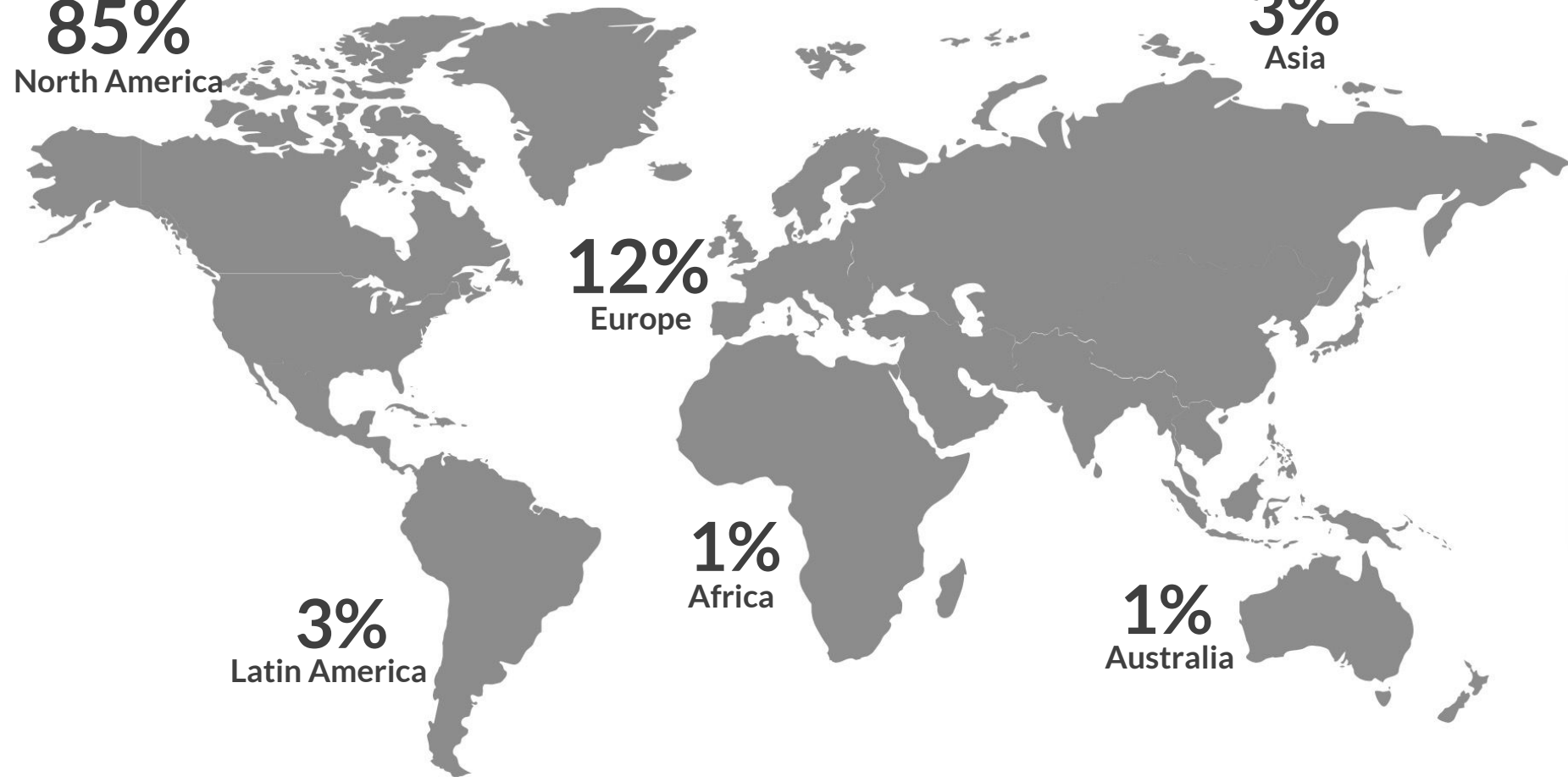
Africa

3%

Latin America

1%

Australia

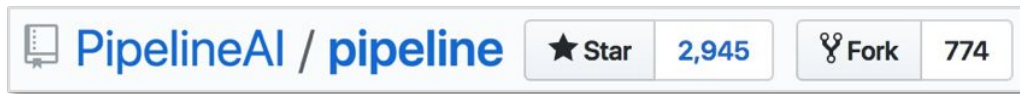




Thank You, London!

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