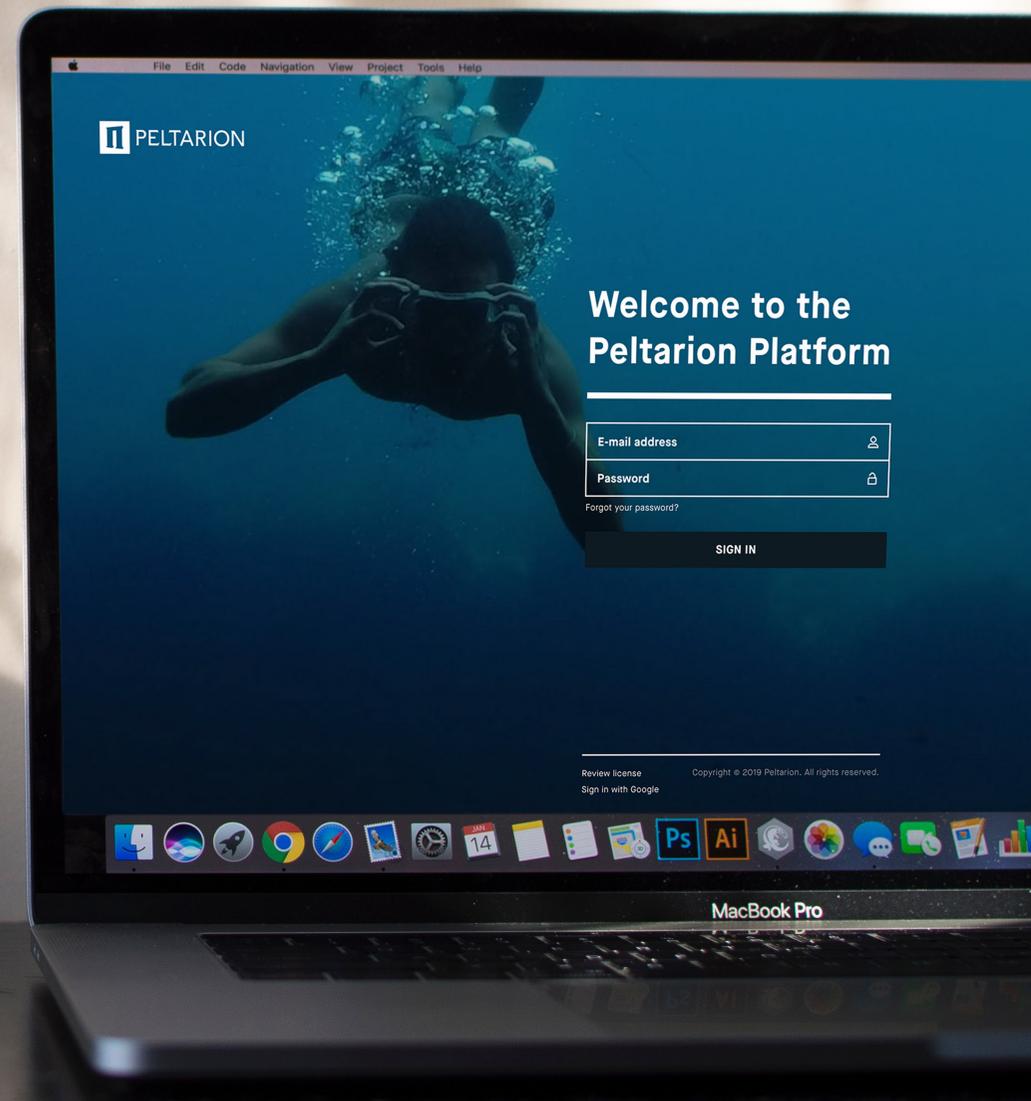




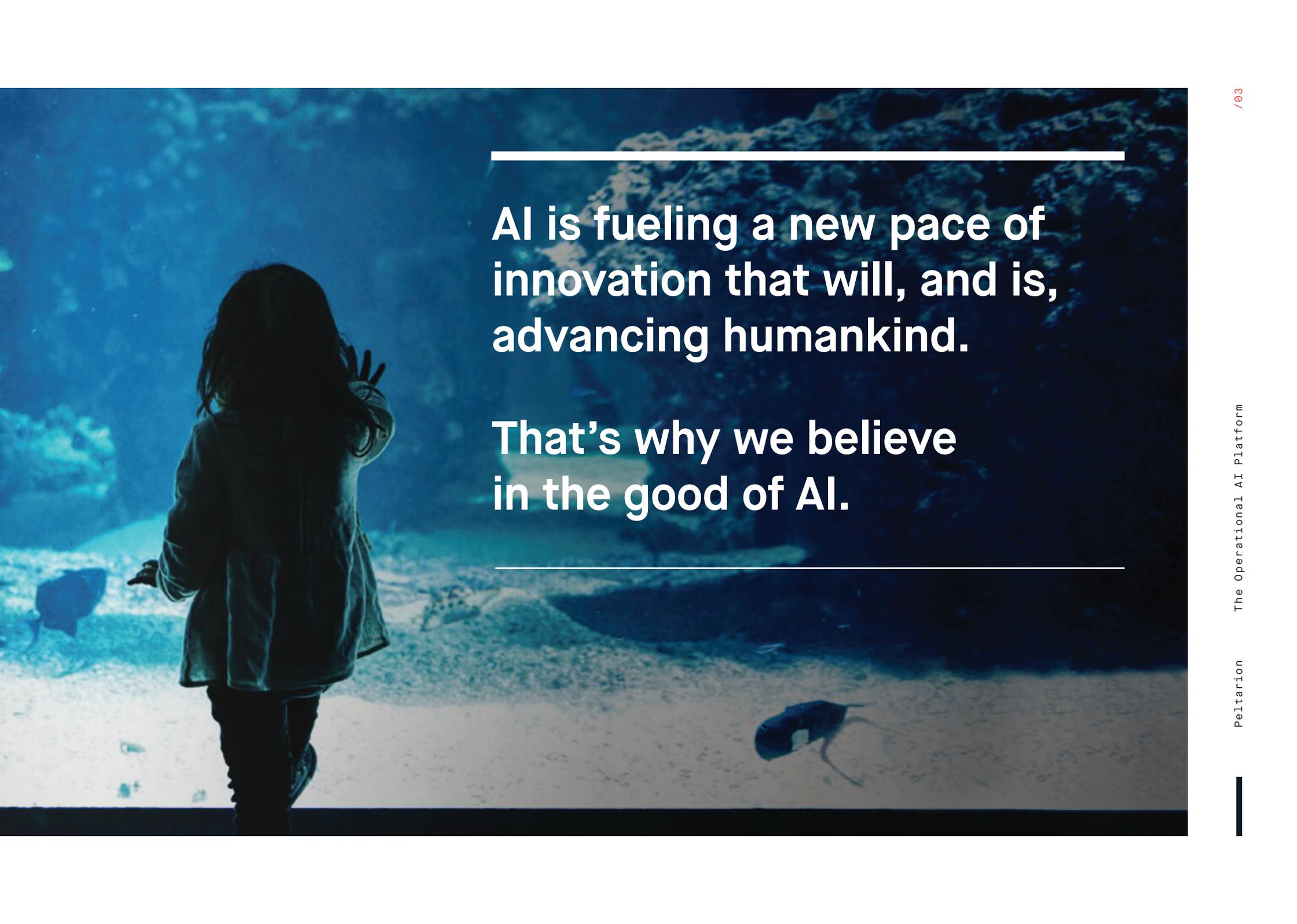
The Operational AI Platform



— You must be brave, and make AI part of your core business. It will make your business 10x better. Do not dismiss it to a niche business area or as R&D

Oscar Höglund, CEO / Epidemic Sound



A child with long dark hair, wearing a light-colored jacket and dark pants, stands in silhouette, looking at a large digital display. The display shows a vibrant underwater scene with blue water, sandy bottom, and several colorful fish. The child's hands are raised slightly, as if interacting with the display. The overall lighting is dim, with the primary light source being the display itself.

**AI is fueling a new pace of
innovation that will, and is,
advancing humankind.**

**That's why we believe
in the good of AI.**

With the Peltarion Platform, everyone, from startups to large established companies, can go from proof of concept to usable, scalable product without new infrastructure or large investments. We believe in the importance of constant evolution of data, products and services. Therefore our platform delivers

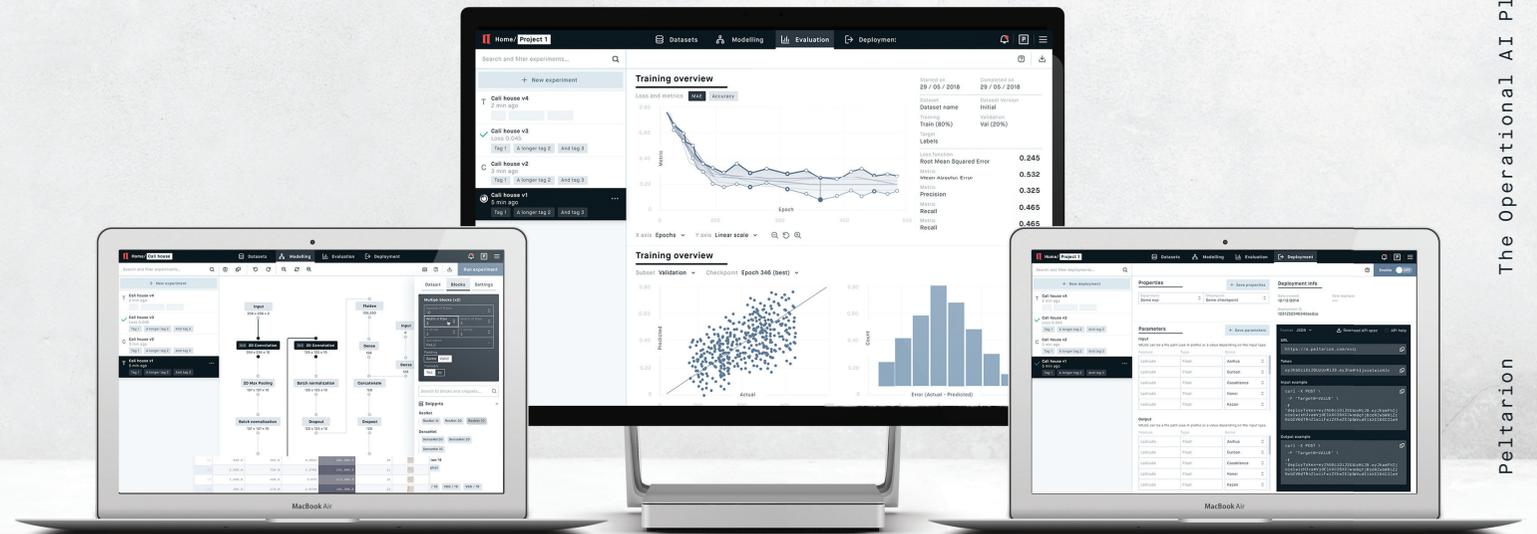
- Intuitive GUI**
- Collaborative**
- Fast deployment**
- Cloud based**
- End-to-end workflow**



The Operational AI Platform

The Peltarion Platform allows you to spend less time struggling with a disparate set of tools and software products and more time delivering.

The software is divided into five main views; Projects, Dataset, Modeling, Evaluation and Deployment.



Home

Search and filter projects...

+ New project

- MNIST 12/08/2018
- Deep Weather 12/08/2018
- Fashion MNIST 12/08/2018
- Mood tagger 12/08/2018
- Housing project 12/08/2018

Created by you

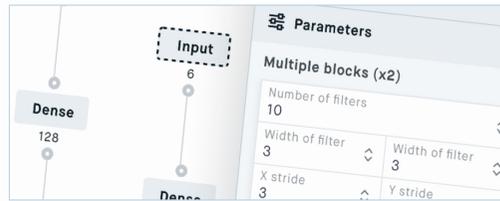
Predicting California house pricing.

Go to project →

What's new

Updates/August

5 min ago

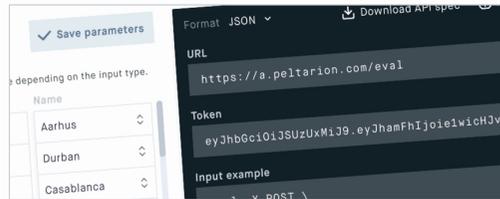


More help and guidance to the model serving through deployment API now available. OpenAPI doc is directly downloadable from the deployment page. Link to deployment API help pages with code snippets in Knowledge center is also added. Check out how to call the deployment API directly from the terminal or Python notebook.

Projects list now has search and filter capability! Search for your own projects or other team members projects without scrolling through long lists!

Updates/July

2018/07/5

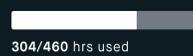


New deployment solution released with persistent deployment. No more 48 hour limitation! Create a new persistent deployment, choose a suitable experiment checkpoint and enable the deployment for API calls! Once obsolete, disable the deployment to save resources.

Total amount of GPU hours spent on models training and uploaded file storage usage now available

Organization resources

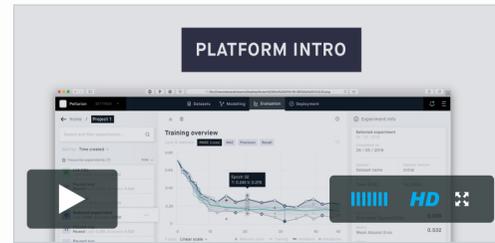
GPU usage



Cloud storage



Knowledge Center



The Knowledge Center provides you with all information you need to acquire a deep understanding on the Peltarion Platform including tutorials, how-tos and in-depth articles.



01/ First tutorial - fashion classification

Classifying images of clothes. Learn the basics of blabla lorem ipsu dolor



02/ California housing

Predict California house pricing. Learn the basics of blabla lorem ipsu dolor



03/ MNIST

Predicting written digits. Learn the basics of blabla lorem ipsu dolor



04/ Music mood

Predict mood from raw audio data. Learn the basics of blabla lorem ipsu dolor

Project view

The Project view gives you an overview of all your projects. These can be projects that you collaborate with colleagues on, or projects that you have created yourself.

New dataset

Data preview

	Col 1	Col 2	Col 3	Col 4	Col 5
Name	Longitude	Latitude	HousingMedi...	Total rooms	Images
Type	Float	Float	Float	Float	Image
Encoding	Standardizat...	Standardizat...	Standardizat...	Standardizat...	Standardizat...
1	-122.23	1,627.0	37.85	910.0	
2	-122.22	919.0	37.85	1,504.0	
3	-122.24	2,535.0	37.85	1,098.0	
4	-122.25	3,104.0	37.84	345.0	
5	-122.25	2,555.0	37.85	1,212.0	
6	-122.25	3,549.0	37.85	697.0	
7	-122.25	2,202.0	37.85	793.0	
8	-122.25	3,503.0	37.85	648.0	
9	-122.26	2,491.0	37.84	990.0	
10	-122.25	696.0	37.84	690.0	
11	-122.26	2,643.0	37.85	409.0	
12	-122.26	1,120.0	37.85	929.0	
13	-122.26	1,966.0	37.84	1,015.0	
14	-122.26	1,228.0	37.84	853.0	
15	-122.26	2,239.0	37.84	1,006.0	
16	-122.26	1,503.0	37.85	317.0	
17	-122.27	751.0	37.85	607.0	

Subsets

+ New subset

Training (80%)

Mean: 37.73109, Min: 37.53, Max: 37.9

Unique values: ~36, Sample size: 101, StDev: 0.1004634

Validation (20%)

Mean: 37.735645, Min: 37.47, Max: 37.9

Cardinality: ~33, Sample size: 101, StDev: 0.098276...

Feature sets

+ New subset

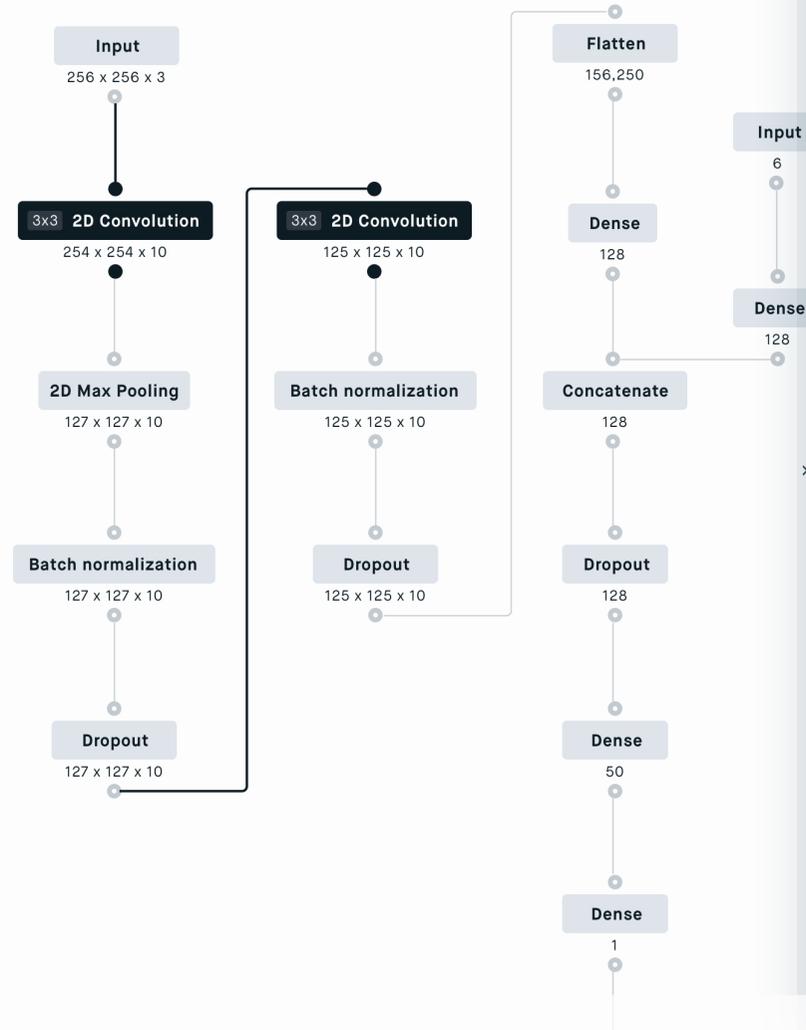
- Input-images** (256x256x3)
- Input-tabular** (6)
- Target - house price** (1)

Dataset view

The Dataset view shows an overview of all datasets connected to your project. It is here that you'll import your data, visualize it and preprocess it. Click on a specific dataset version to see all relevant information about it, and manage and adjust the data to create versions fit for modeling.

New experiment

ger tag 2 And tag 3
ger tag 2 And tag 3
ger tag 2 And tag 3



Dataset Blocks Settings

Multiple blocks (x2)

Number of filters
Multiple values...

Width of filter 3	Width of filter 3
X stride 3	Y stride 3

Activation
Multiple values...

Padding
Same Valid

Trainable
Yes No

Modeling view

Search for blocks and snippets...

Snippets

ResNet

- ResNet v2 Large 50
- ResNet v2 Large 101
- ResNet v2 Large 152

DenseNet

- DenseNet 121
- DenseNet 169

Inception V4

- Inception V3
- Inception V4

VGG

- VGG 16
- VGG 19

Blocks

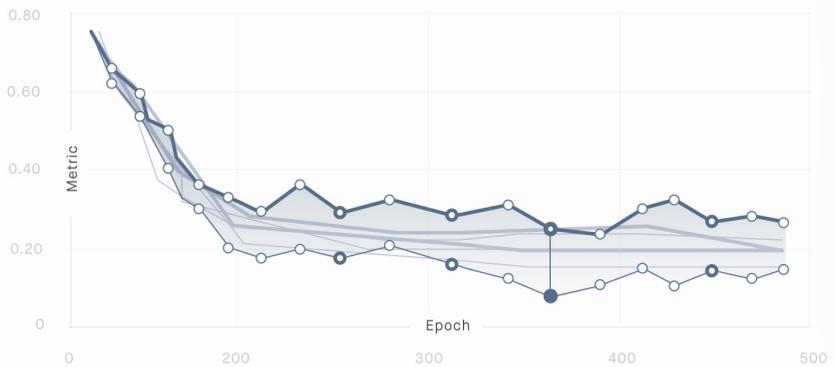
Input/output

Input Target Sink

It's in the Modeling view that you and your team build AI models. Share, learn and build on the work of others. Enable cross-functional teams to improve the end solution. You can run multiple experiments simultaneously on cloud GPUs, while building new models.

Training overview

Loss and metrics **MSE** MAE MAPE MSLE



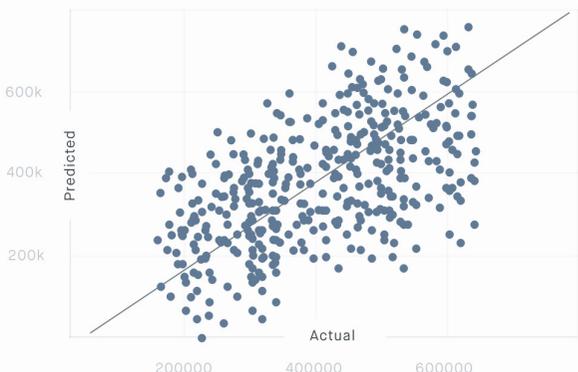
X axis Epochs Y axis Linear scale

Started on	29 / 05 / 2018	Completed on	29 / 05 / 2018
Dataset	Dataset name	Dataset Version	Initial
Training	Train (80%)	Validation	Val (20%)
Target	Labels		
Loss function	Mean Squared Error		0.245
Metric	Mean Absolute Error		
Metric	Mean Absolute Percentage Error		
Metric	Mean squared logarithmic error		0.046

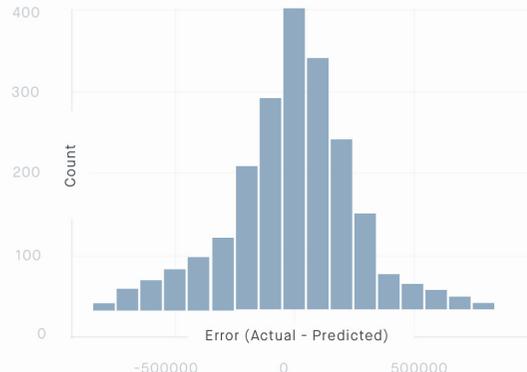
Evaluation view

Training overview

Subset Validation Checkpoint Epoch 346 (best)



X and Y axes Linear scale



Y axis Linear scale

In the Evaluation view you can see, in real time, how the AI model is performing as it's learning from the data. Compare performance between models using various metrics to identify ones you want to deploy.

New deployment

Properties

[+ Save properties](#)

Experiment Cali house v1	Checkpoint Best
-----------------------------	--------------------

Deployment info

Date created: 12/13/2014
 Date deployed: ---
 Deployment ID: 123125234654dasdsa

Parameters

[+ Save parameters](#)

Input
VALUE can be a file path (use @-prefix) or a value depending on the input type.

Feature	Type	Name
House median	Float	House median
Total rooms	Float	Total Rooms
Image	Float	Image
Households	Float	Households
Median income	Float	Median income

Output
VALUE can be a file path (use @-prefix) or a value depending on the input type.

Feature	Type	Name
Median house...	Float	Median house...

Format: JSON
[Download API spec](#) [API help](#)

URL
https://a.peltarion.com/eval

Token
eyJhbGciOiJSUzUxMiJ9.eyJhamFhIjoie1wicHJv

Input example
{
 "housingMedianAge": "<Data based on input type>",
 "totalRooms": "<Data based on input type>",
 "image_path": "<Data based on input

Output example
{
 "medianHouseValue": "<Data based on output type>"
}

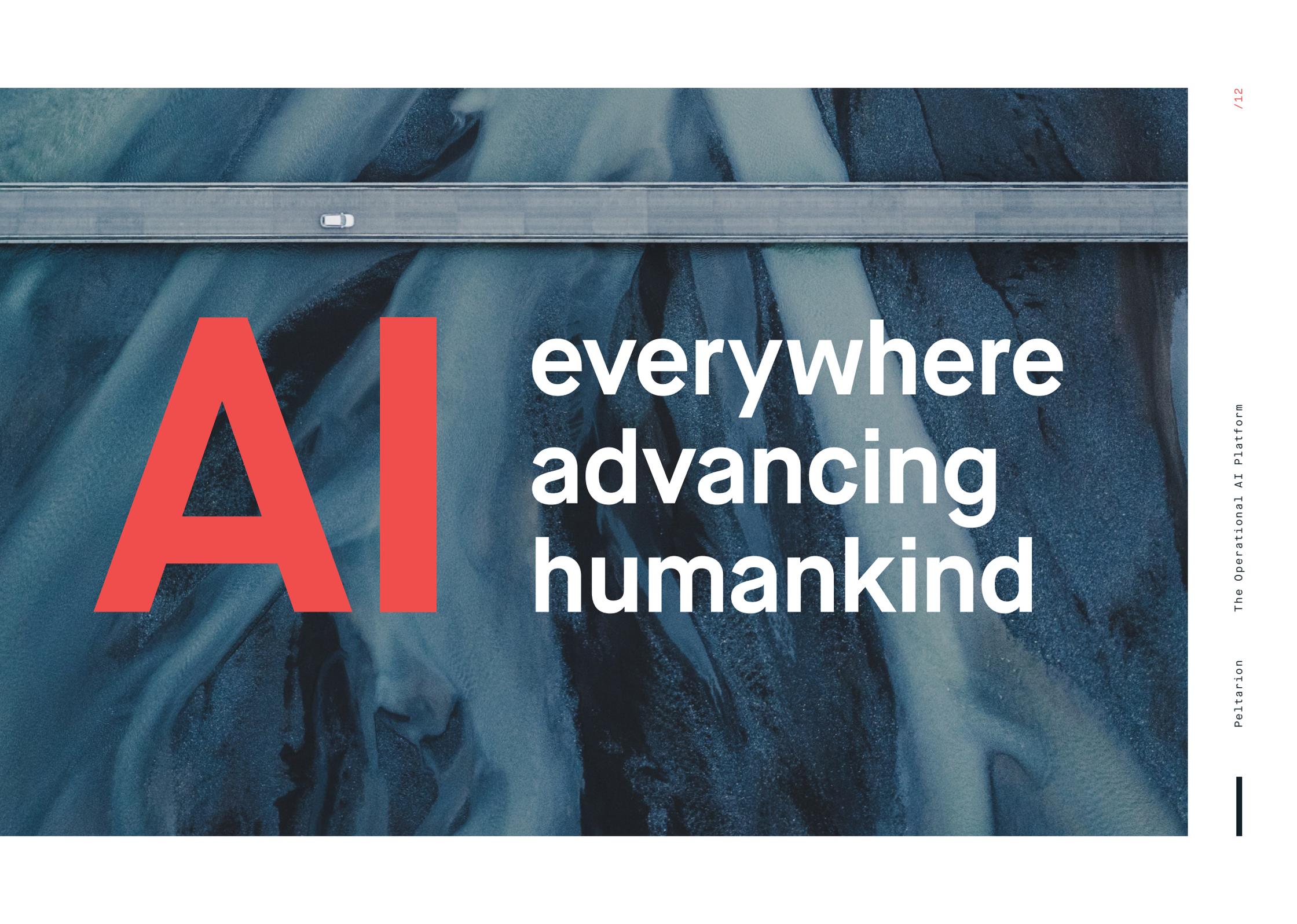
Deployment view

From the Deployment view, you can make your model quickly available, via an API for integration with external applications and services. AI modeling cycles from data through to deployment are made exponentially faster.

— The key to unlocking the potential of AI is to make it operational. Peltarion is all about empowering people to create real-world scalable AI solutions, delivering business value as fast as possible.



Luka Crnkovic-Friis & Måns Erlandson
/ Founders of Peltarion

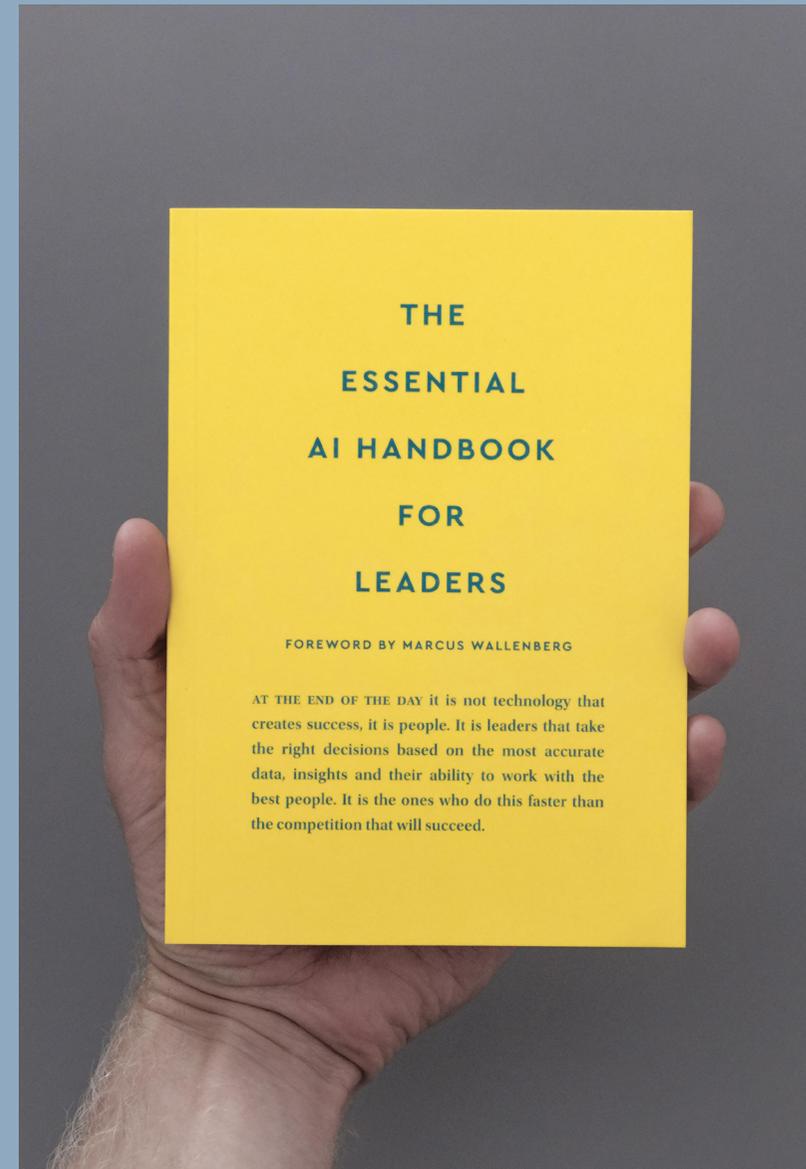


AI everywhere advancing humankind

— The first step to change is insight and knowledge.

AI will affect us all. Get to know it and your path.

Marcus Wallenberg
/ Chairman of SEB, SAAB and FAM,
Vice Chairman of Investor AB and
The Knut and Alice Wallenberg Foundation



The journey to Operational AI

We have several partners, in both business and technical consulting, ready to help you on your journey to Operationalize AI in your business.

AI readiness

Knowledge & understanding

Identify business opportunities

Roadmap

Operational AI

Data preparation

Production readiness

Models deployed to productions & services

Scale, improve & maintain



26.02.2019 & 27.02.2019 / Stockholm

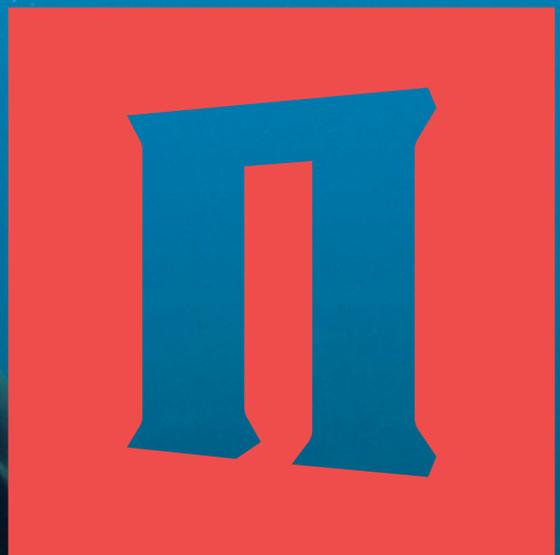
Join us for our first ever Operational AI Master Class

Led by some of the best brains in the AI sector, the workshop is built to support businesses in moving beyond the abstract promise of AI into the realm of real world applications.

Register your interest now at peltarion.com/ai-masterclass



For more information
visit peltarion.com



PELTARION

February 2019

Case study

Peltarion