

#### **OWKIN - AI FOR MEDICAL RESEARCH** SOFTWARE STACK

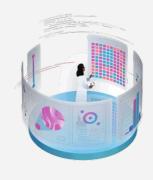
# Owkin Software Stack STUDIO







#### **OWKIN - AI FOR MEDICAL RESEARCH** SOFTWARE STACK





#### Building a bridge between medical research and machine learning

#### Research focus

- ► Oncology
- ► Cardiovascular
- ► Auto-Immune

#### **Key Features**

- ► Biomarker discovery
- ► Prognosis modeling
- ► Mutation predictions
- Response to treatment evaluation

#### Requirements

► Get in touch with our Partnerships team for research and IT related questions

## DEMOCRATIZE MACHINE LEARNING FOR RESEARCHERS

Owkin Studio brings the power of AI to medical researchers - delivering an actionable research workflow through an integrated software platform

#### Intuitive and creative space for AI Projects

Owkin Studio is a software platform designed to bring the power of AI to medical researchers. It allows them to run AI experiments on their data. The user structures a research project, trains a machine learning model, and interprets the results.

Researchers can take it one step further by collaborating with the Owkin Lab data scientists to design more advanced experiments or train additional algorithms.

### Designed for biomedical researchers, not machine learning experts

Owkin Studio's intuitive user interface is engineered to allow for non machine learning experts to perform AI research projects. Unlike traditional black-box AI, models developed through Owkin Studio are interpretable, allowing the identification of features in the data responsible for the predictions and enabling researchers to investigate their biological meaning. Owkin Studio gives researchers the tools to discover new biomarkers that could revolutionize patient outcomes.

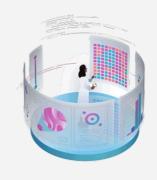
Request access to our trial owkin.com/owkin-studio







#### **OWKIN - AI FOR MEDICAL RESEARCH** SOFTWARE STACK





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## DEMOCRATIZE MACHINE LEARNING FOR RESEARCHERS

Building an actionable research workflow

Owkin Studio provides an increasing number of modules to perfectly fit medical researchers' workflows and needs: cohort management, annotation, machine learning project management, and result interpretation.

#### **Cohort management**

an we j	oredict Tumor Mutation	nal Burden (TMB)	∰ Created on February 5
	<b>u</b> ∨	WSC, KNARIO, TRAK	Norselent Mutations per MB
Θ	T0GA-05-4249	TCQA-66-4249-012-00-0X1.95te	8,47
0	TOGA-05-4382	*** TCGA 05-0802-012-00-0X1.76%	27.78
	YOGA-05-4384		
	TCGA-05-4389		
Θ	TOSA-05-4390	TCGA 05-6390-012-00-0X1.858	1441
0	TCGA-05-4385	TCGA-05-4395-012-00-DX1202.	6.34
Θ	TCGA-05-4086	TCGA-05-4396-012-00-DX1.49D	1346
0	TOGA-05-4388	3 TCCA 05-1998-012-00-CH1.269.	1972
0	T0GA-05-4402	TCGA-05-4402-012-00-DK1.265	416
е	T058-05-4403	TCGA-05-900-012-00-001 fire8	353

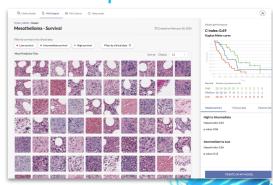
#### **Annotation**



#### ML project management

Pediatric Bone A	Age hypothesis creati	n = 541		
₩ NAUT	Ø PRECECTION			Model will be trained on this number of patients. If there serve missing data in the selected criteria, the petients we be used for the training.
Image name	Age (years)	2 Gender		Select prediction data
9971	61	Female		The prediction data is what you want your model to predict once you have trained it on the data.
9972	74	Fernale		✓ AGE (YEARS)
9973	53	Male		Select input data
9974	32	Male		select sleles.  ✓ IMAGE
9975	52	Female		Train model
9976	47	Male		Classification Model Advantation is a military where was word to
9977	71	Male		
9978	68	Female		Regression Model  A repression is a problem where the user words to
9979	70	Fernale		predict a number, such as age, life expectancy, blood pressure etc.
9900	49	Female		
DW 2231	57	Male		CONFERM AND TRAIN MODEL

#### **Result interpretation**



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