

Ryax Technologies

Another way to build your Data Science and Data Analytics



Ryax is results driven, some of Ryax's use-cases



INDUSTRY

Predictive maintenance



Data pipeline automation
from machines to Cloud



Real-time machine-tuning advising
(pushed on site)

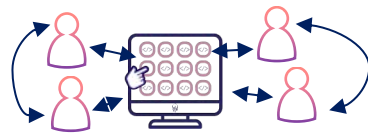


PHARMACEUTICS

Lab automation



Interconnect lab instruments, IoT,
programmable equipment, PCs, Clouds...



Structured, collaborative and modular
framework for data processing automation
Made of reusable/shareable modules

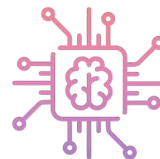


DIGITAL MARKETING

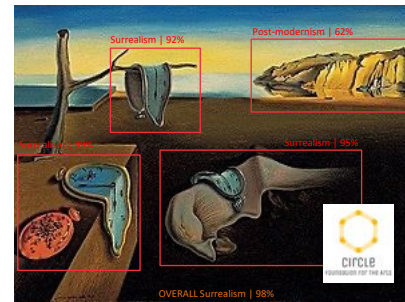
Heuristic recommendation



Data pipeline automation
from Applications to Cloud



Publish on line recommendation
content for given
brands/campaign



CONSUMER & ARTS

Art matching and recommendation



CRM automation
Art style detection & recommendation



Artists / Art Galleries matching model
Reactive relation implementation

Business Problem: Reduce downtime of the production line

- Avoid unscheduled shutdowns
- Reduce maintenance costs
- Reduce the number of faults
- Increase the quality and productivity of production times

Ryax response:

- Development of a predictive maintenance algorithm
- Integration of maintenance orders into the manufacturing plan
- Automatic provision of daily adjustment instructions

Ryax's unique value: "-40% production line shutdown"

- A configurable and scalable algorithm, the code is available to the customer
- End-to-end process automation
- Taking into account of data collection from remote factory sensors
- Strong constraints on the network

Business Problem: Increase productivity of Laboratory experiments

- Automate the processing chains
- Remove manual errors
- Remove shadowy & non-maintainable sporadic scripts developed by Business Analysts

Ryax response:

- Automation of experimental processes
- Offer prefabricated modules that can be used by Laboratory analysts
- Follow up on process executions
- Provide IT developers with a framework for developing modules

Ryax unique value: “From 5 days to 1 hour for a complex lab experiment”

- Reliability of the results published in the ref database by removing human interventions
- Laboratory analysts are autonomous in the execution of their process
- IT can maintain and support the solution’s extensions: repeatability in all research laboratories, pharma, chemistry, cosmetics, food
- Reproducible when there are manual or Excel processes, for example the supply chain

MOZAIK - POSALY Project

Business Problem: Find the right influencers for Hotels chain to promote their brand

- Allow influencers to sell automatically, via their social networks for example
- Find influencers according to the type of hotel chains and the budget available in hotels and GDPR compliance
- Increase traffic on hoteliers' websites and consequently increase booking rates
- Increase the visibility of hotel chains

Ryax response: Recruit influencers on Instagram and Facebook and offer them to hotel chains on a dedicated platform.

- Influencers matching and hotel x influencers matching. Our "semantic matching" model evaluates influencers' profiles and their 'cost'
- Aggregation of influencer stats and metrics so that companies can better make their choice of influencer
- ROI prediction of an influencer campaign

Ryax unique value: "From weeks to minutes"

- Advanced high-value recommendations
- Automation of ML pipelines with zero IT complexity (including management of the lifecycle of ML models: retraining, redeployment, etc.)
- Customer progressively becomes autonomous: no more service contracts (and the ML data pipelines improve continuously over time)

Business Problem: sell more (by increasing traffic)

- Connecting artists and (digital) online galleries is difficult!
- Knowing which client would buy more of such and such work of art is difficult!
- The team in place does not know how to technically automate (DS + IT) this artist x client matching

Ryax response: for the right customer the right piece of art

- Visual indexing of artworks by keywords, relevant artworks are recommended to each client
- Provision of a keyword search engine for customers:
 - > The algorithm uses a pattern history of client 'likes' to offer relevant artworks
 - > The algorithm makes advanced recommendations, going far beyond 'obvious' correlations: cross-movement artistic recommendations, cross-eras, cross-genre, cross-support...

Ryax unique value: “Make a new business model possible”

- Advanced high-value recommendations
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Ryax projects in a glimpse

Ryax Tech is the accelerator of your data analytics and data science projects.

benefit from:



Our best-in-class community
of Data Scientists & Data
Analysts



The power of DataOps
to iterate rapidly with your
production environment



Moving forward, the guarantee
of your full autonomy to execute,
upgrade and scale your project

Community

Why using our community?

- No need to hire
- No need to train

What are their profiles?

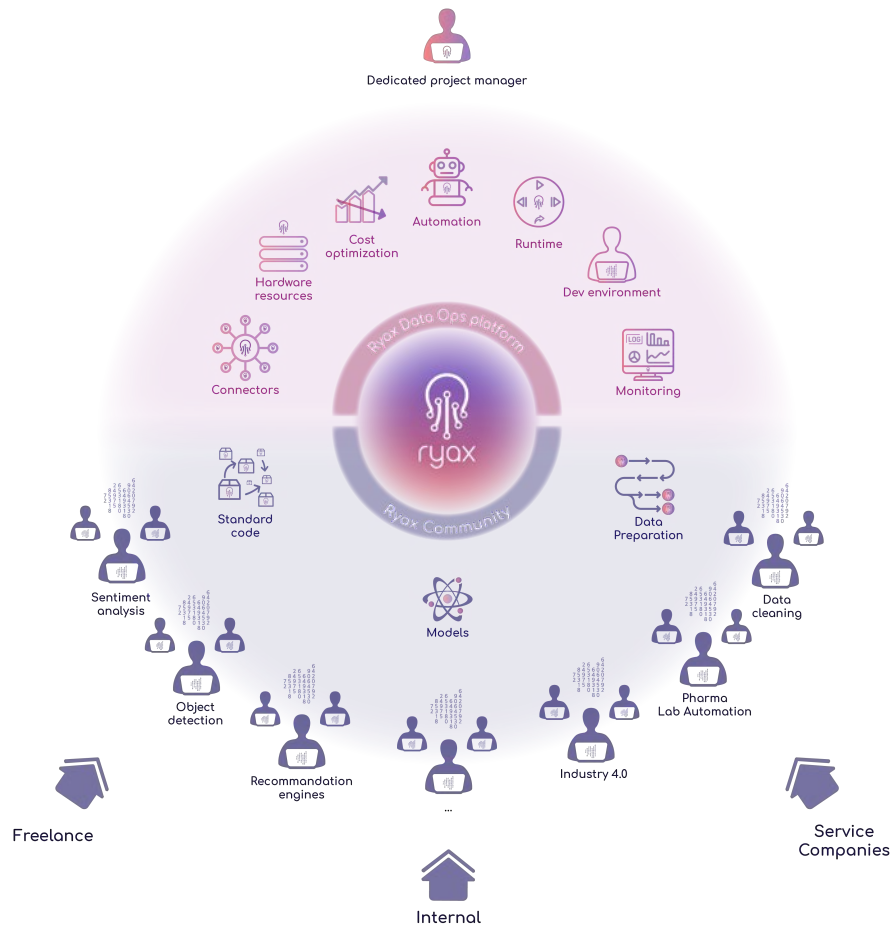
- Data Scientists
- Data Analysts
- IT-skilled business analysts (specialized in a business field)

What do they provide?

- Data preparation workflows
- State of the art code and models
- Integration with your IT ecosystem

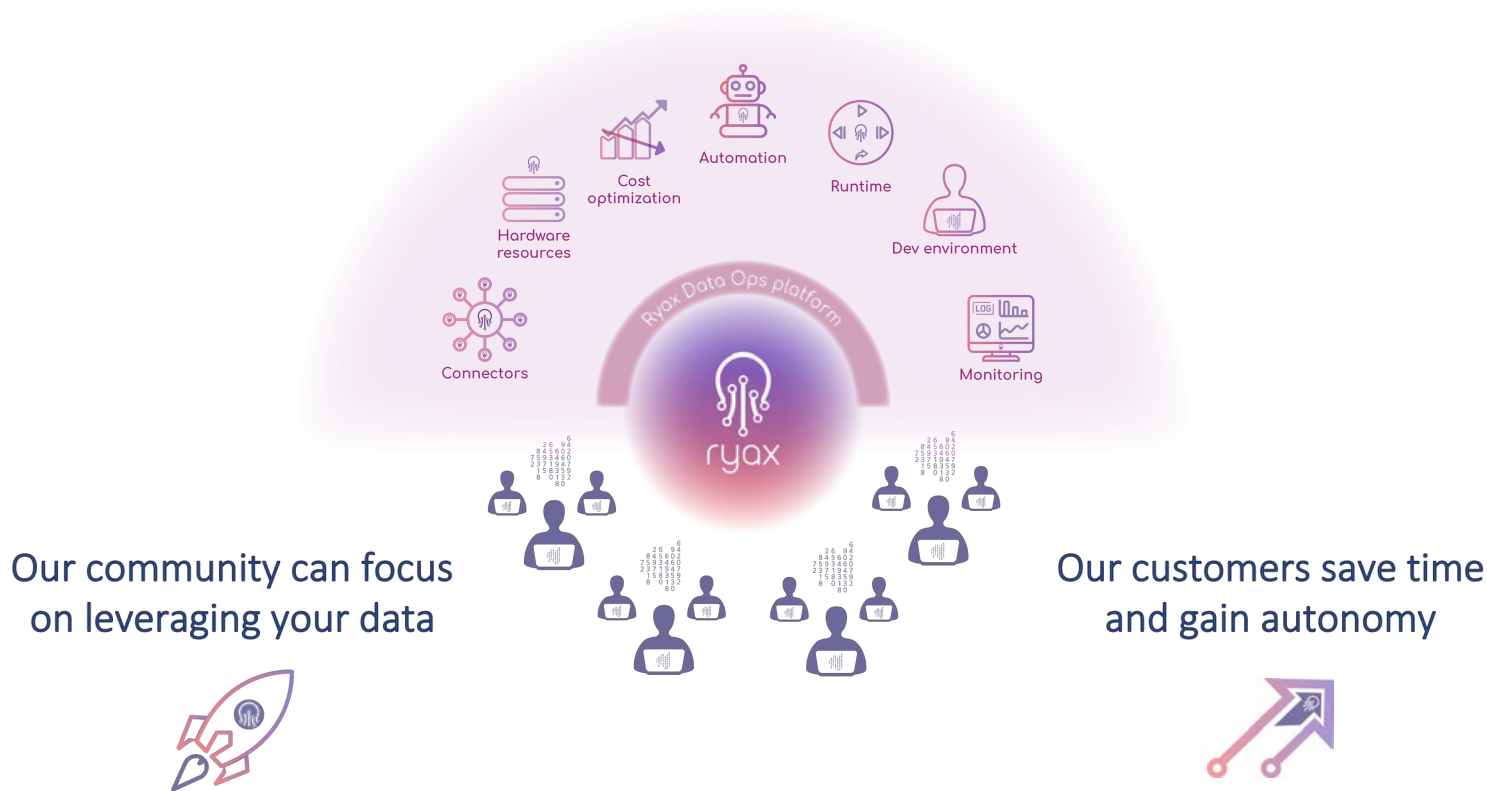
How do they work?

- Managed by a customer-dedicated project manager
- Structured with DataOps' best practices
- Agile Methodology



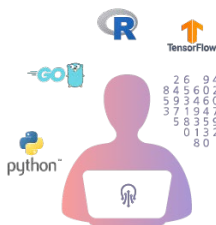
A community-powered service approach

Through the Ryax DataOps Platform



Project delivery

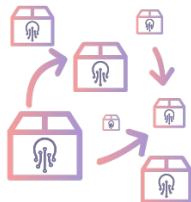
What our project managers deliver



Industry-grade code, compliant with state-of-the-art standards



Directly usable by your business field engineers



Directly upgradeable with your own code or through already pre-built modules in the Ryax store

Process

DISCOVERY MEETING

Identify the WHY

1 hour

1 data scientist
1 sales representative

DEFINITION MEETING

Identify the HOW

2 hours

1 data scientist
1 sales representative
1 architect

TEAM

Identify the WHO

Based on the community

x data scientist
y data analyst
1 sales representative
1 architect

QUOTE



Execution plan

Data integration

- Collecting
- Cleaning

Data analytics

- Exploratory data analysis
- Software decision making
- Modeling

IT integration



Run

Delivery / CI-CD
Business results

Autonomy

Step one: data value validation

Step two: business value validation

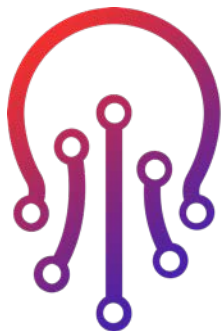
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technologies

