

Deep learning software from Intellegens

Accelerate innovation for materials, chemicals, manufacturing, and beyond

intellegens

Applied machine learning

Why Alchemite™?

Extract more value from real-world, sparse, noisy data

Win with optimised formulations, products, and processes

Save time and cost with up to 90% fewer experiments

Deploy advanced deep learning for maximum impact

Customers say:

"Alchemite™ was able to converge on a solution with far fewer experiments" AMRC

"It really expands the bandwidth of our data scientists"
NASA

"Alchemite™ identified novel formulations quickly and accurately"

Domino Printing Sciences

"We can make better decisions about which experiments we perform"

Lucideon

What is Alchemite™?

Based on algorithms originating at the University of Cambridge, Alchemite™ is deep learning software developed by Intellegens. It has unique capabilities to extract value from real-world, sparse, noisy data, where most machine learning methods fail.

Successful application areas include materials, chemicals, formulations, and industrial processes.

Whatever the system being studied, Alchemite™ fills in gaps in the data and generates a machine learning model that you can then apply to predict outputs or optimise inputs. It can also identify important relationships in the data and provide guidance on which set of experiments would most efficiently enable you to achieve your targets.

The result? You can apply advanced machine learning to accelerate innovation.



See all case studies at Intellegens.com/casestudies

Making machine learning easy to deploy



Alchemite™ Analytics

Deep data insights on your desktop

For scientists and engineers

Guide experiments

Predict, design, optimise



Alchemite™ Engine

Power and flexibility for data scientists Integrate Alchemite™ into your workflows Advanced configuration

and deployment

Alchemite™ Success

Apply our deep learning expertise

From 'getting started' support to full project
management

Key features

- Handle sparse, noisy real-world data
- Optimise against multiple targets
- Provide confidence with accurate uncertainty quantification
- Make a fast start Alchemite™ requires minimal assumptions
- Apply a lightning-fast, scalable method
- Learn from all available data in a single study

Example applications



Additive manufacturing
A data-driven approach
to reliable, repeatable
AM processes.



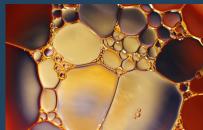
Alloy design and development Accelerate innovation and optimise processing.



Batteries
Optimise battery formulations
and pack design, enable
battery management.



Drug DiscoveryFind new candidates, support virtual screening, and focus experiment.



Chemical processes
Cut out trial-and-error and
speed up discovery and
development.



Formulated products

Make better use of
experimental resources and get
to market faster.



Plastics Improve the design, blending, and processing of polymeric materials.



Manufacturing processes Optimise processing parameters for improved quality and efficiency.



Adaptive experimental design Better results from fewer experiments.

More at: Intellegens.com

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