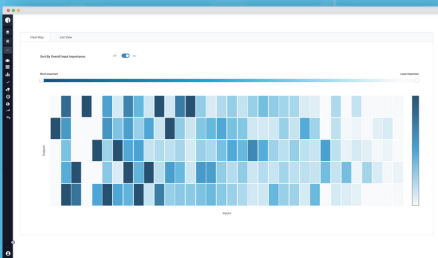# intellegens
Applied machine learning

The Alchemite™ Academic Program

Apply a proven, leading-edge machine learning method in your research

Strengths include handling of sparse and noisy data, accurate uncertainty quantification, and computational efficiency

Generate insights while freeing up research time previously spent on method development and coding
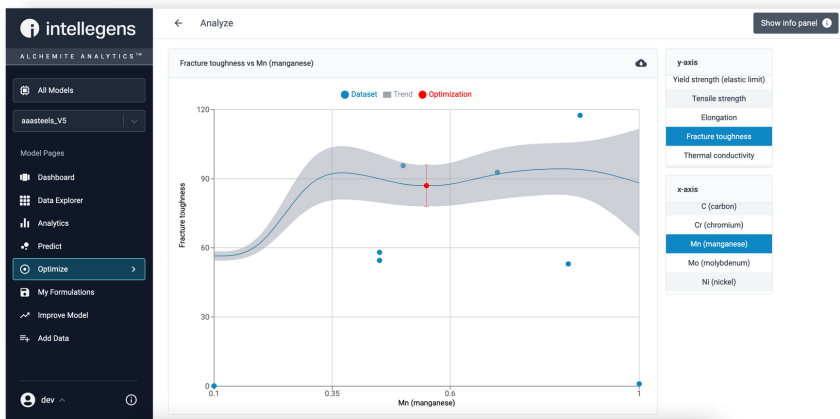

The Importance Plot, a standard analytic in the Alchemite™ software, shows how the inputs to a system influence the outputs.

The Alchemite™ machine learning methodology was originally developed at the **University of Cambridge** and is now driven forward by university spin-off company, **Intellegens**. Find and explore relationships in your data, predict system outputs given new inputs, identify optimal inputs to achieve target outputs, and drive adaptive design of experiment campaigns.Typical applications include **chemistry**, **formulations**, **materials science**, **life sciences**, and **additive manufacturing**.

The Alchemite™ Academic Programme makes access to this method affordable and easy for academic researchers. Gain valuable insights into your data while freeing up research time otherwise spent on method development or coding.

What's different about Alchemite™?
Alchemite™ is designed and continually updated to address scientific research challenges such as formulation design, process optimization, and design of experiments. A particular strength is its ability to train machine learning models from sparse, noisy data – a scenario in which most ML method fail. This makes it ideal for studying real-world experimental and process data or datasets collated from multiple sources. The method has also been tuned for computational efficiency.

The Alchemite™ Analytics platform provides sresearchers with quick, easy access to advanced machine learning methods, applying powerful graphical analytics via a web browser user interface.

A proven method

Publications – For a summary of Alchemite™ and its use, see the white paper *Alchemite™ deep learning - solving complex problems with real-world data*. Over 20 peer-reviewed papers that apply the method are also available via the Intellegens website. At **intellegens.com** select the 'Resources' menu.

Case studies – See example projects in areas including food formulation, additive manufacturing, drug discovery, inks, catalysts, alloy design, steels, and composites. **intellegens.com/casestudies**

Program details

The Alchemite™ Academic Program entitles you to:

- A licence to the **Alchemite™ Analytics** web browser-based platform, enabling you to quickly build ML models from any numerical or categorical dataset, to apply these models, and to analyze the results.
- A licence to the **Alchemite™ Engine** API, enabling you to integrate the method into other processes and connect it to your data via scripting and coding.
- An 80%+ discount on the commercial pricing of the Alchemite™ software.

To qualify for the Program you must:

- Be engaged in academic research at a university or equivalent institution.
- Not use the software to support any commercial collaboration or for-profit activity.
- Reference or acknowledge use of the Alchemite™ method in any presentation or publication describing work that included processing or analysis of data using the software.

Members have full access to documentation but scientific support services are not included.

Next steps

Download an information pack and register your interest: **intellegens.com/academic**

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