GenIQ, Ltd

Genetic Modeling & Data-/Text-Mining Software

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Regression Modeling Involves Art, Science, and Poetry Too

Shakespeare Ratner

The statistician's utterance "regression modeling involves art and science" implies a mix of a *skill acquired by experience* (art), and a *technique that reflects a precise application of fact or principle* (science). I assert the trilogy of art, science, and concrete poetry. With concrete poetry, the poet's intent is conveyed by graphic patterns of symbols (e.g., a regression equation) rather than by the conventional arrangement of words. Thus, I put forth a metrical modelogue to introduce the machine-learning technique GenIQ, indeed an in-between of art and science, as an alternative to the statistical ordinary least squares, and logistic regression models. Interpreting the modelogue requires a subtle reading to appreciate the meaning of the GenIQ Model. However, for an alternative means of understanding of GenIQ, you can sign-up for a GenIQ Webcast – *free!*

To Fit or Not to Fit Data to a Model

To fit or not to fit data to a model - that is the question:
Whether 'tis nobler in the mind to suffer
The slings and arrows of outrageously using
The statistical regression paradigm of
Fitting data to a pre-specified(!) model, conceived and tested
Within the *small-data setting* of the day, 206 years ago,
Or to take arms against a sea of troubles
And, by opposing, move aside fitting data to a model.
Today's big data necessitates - *Let the data define the model*.
Fitting big data to a pre-specified *small-framed* model
Produces a *skewed* model with
Doubtful interpretability and questionable results.
When we have shuffled off the expected coil,
There's the respect of the GenIQ Model,
A machine-learning alternative regression model
To the statistical regression model.
GenIQ is an assumption-free, free-form model that
Maximizes the cum lift statistic, equally, the decile table.

-- Bruce "Shakespeare" Ratner