

8/15/2021

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About

autoencoder, h2o.deepfeatures(), h2o.mse(), str() -- using and interpreting results

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6) Type of data you are using (if applicable).
numeric, binary data

7) Code is pasted below at the end

***** QUESTIONS *****

I need help using h2o.deepfeatures() and other functions. I'm trying to understand the output of my autoencoder r

0) Is there a good tutorial on using and interpreting the autoencoder feature?
This tutorial: <http://docs.h2o.ai/h2o/latest-stable/h2o-docs/booklets/DeepLearningBooklet.pdf> is not that helpful.

1) I was advised in a separate post to use h2o.deepfeatures() to get the output of the ae model. However, when I fe
chk.H2OFrame(x) : must be an H2OFrame". How do I convert my ae model variable to an H2o frame? Currently, it is
> class(it2.dl.ae)
[1] "H2OAutoEncoderModel"
attr(,"package")
[1] "h2o"

2) I was also advised to pass this autoencoder object to h2o.mse() or str() to get metrics.For h2o.mse() I get the fc
> h2o.mse(it2.perf)
[1] "NaN"

3) for str(), I get the following. How do I interpret this?
> str(it2.perf)
Formal class 'H2OAutoEncoderMetrics' [package "h2o"] with 5 slots
..@ algorithm: chr "deeplearning"
..@ on_train : logi FALSE
..@ on_valid : logi FALSE
..@ on_xval : logi FALSE
..@ metrics :List of 10
...\$ model :List of 4
... ..\$ __meta:List of 3
...\$ schema_version: int 3
...\$ schema_name: chr "ModelKeyV3"

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