# Stack Auto-Encoder:

**Attributs:**

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|---|---|
| inputs: | *(theano.tensor.TensorType)* Symbolic variable for the inputs |
| architecture | *np.array(number of machines, type: dict)* An array containing the different parameters required to construct and train the various AEs |
| stack_machine: | *list(AE.autoencoder)* List of AE composing the SAE |
| encoder: | *list(tuple(W1,b1))* List of weights to perform the encoding |
| Decoder: | *list(tuple(W2,b2))* List of weights to perform the decoding |

**Methods:**

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|---|---|---|---|---|
| init | forward_encoding | train_autoencoder | Supervised_finetuning | vizualise_learning |
| | Forward_decoding | Unsupervised_pre_training | Supervised_classification | Reconstruct |
| | | | | Save_experiment |