

# ***Helmholtz Machines w.r.t Raman Spectroscopy based Probing of Nano-Bio Material Systems -> A Short Technical Communication on Designing Next Generation Molecular Information Processing Platforms.***

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**[I] Main Idea + Inspiration + Introduction :**

[Hinton, G. E. and Zemel, R. S. (1994) Autoencoders, Minimum Description Length, and Helmholtz Free Energy](<http://www.cs.toronto.edu/~hinton/absps/cvq.pdf>)

Please read : Neural Computation 7, 889-904 (1995) @ 1995 Massachusetts Institute of Technology.

A Tutorial on Helmholtz Machines by Kevin G. Kirby Department of Computer Science, Northern Kentucky University June 2006.

<https://github.com/tejdkn-2019-ShortNotes> -> Lot of direct examples.

We are testing on the following Idea : [https://www.vixra.org/author/nirmal\\_tej\\_kumar](https://www.vixra.org/author/nirmal_tej_kumar) -> see the first ref for a direct example.Thanks.

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