

Image Recognition in Ruby TensorFlow w.r.t Advanced Electron Microscopy [EM] /cryo-EM Images – A Simple Idea on Using C/Ruby/mruby/QRNG/ML involving intel's Movidius/Smart Devices + IoT + HPC Heterogeneous Systems as a Robust Image Processing Platform for Rapid Prototyping of Imaging Algorithms.

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[I] Main Idea + Inspiration + Introduction :

Exploring Inception-v3 in tensorflow.rb → by Arafat :

[Source - <https://medium.com/@Arafat./image-recognition-in-ruby-tensorflow-df5d5c05389b#.ty1vygtrg>].

<https://medium.com/@matriXanger/image-recognition-with-owl-a5a6d0caef33>

[II] R&D Informatics Framework to Probe cryo-EM Images :

Please derive your own Informatics TEST BED to to probe the images of interest using :

<https://github.com/tejdnk-2019-ShortNotes/2021-Nir-Informatics/blob/main/OCaml-C-llvm-Inceptionv3-Nir-21.pdf>

Simply replace OCaml with Ruby/TensorFlow.rb + fine tune the image processing algorithms.

Thanks – Dr.Nirmal.

[III] Important + Useful References :

1. [Introductory blog post](<https://medium.com/@Arafat./introducing-tensorflow-ruby-api-e77a477ff16e#.mhvj9ojlj>)
2. [Developers blog post](<https://medium.com/@Arafat./ruby-tensorflow-for-developers-2ec56b8668c5#.97tng1qqi>)
3. [Image Recognition Tutorial](<https://medium.com/@Arafat./image-recognition-in-ruby-tensorflow-df5d5c05389b#.ty1vygtrg>)
4. <https://github.com/tejdkn-2019-ShortNotes>
5. TensorFlow](<https://github.com/tensorflow/tensorflow>)
6. DOI: 10.5958/0975-8089.2016.00001.4 – cryo-EM Image Processing Using Java/JikesRVM.

[IV] Acknowledgment/s:

Sincere Thanks to all WHO made this happen in my LIFE.

Non-Profit R&D.

Inspire Others Always.

[V] Conclusion/s + Future Perspectives :

Tensor Flow and Ruby – What a combination !!!.

[THE END]