Understanding Mechanisms of TensorFlow Java + High-level Deep Learning Framework written in Kotlin and inspired by Keras w.r.t JikesRVM – Research Virtual Machine - > Towards Developing Some Innovative Methods in Advanced Software R&D.

 $[\ Exploring\ Medical\ Imaging\ Using\ TensorFlow\ Java\ API+KotlinDL+ImageJ+RVM-Research\ Virtual\ Machine\ ]$ 

## Nirmal

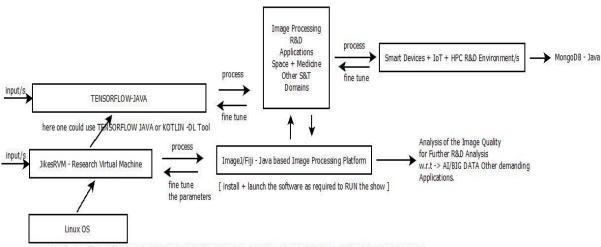
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## [I] Idea + Inspiration + Implementation :

[ Exploring Medical Imaging Using TensorFlow Java API + KotlinDL + ImageJ + RVM-Research Virtual Machine ]



ALGORITHM I - JAVA/KOTLIN/JVM BASED ADVANCED IMAGE PROCESSING PLATFORM -> TO PROBE SPACE + MEDICAL IMAGE PROCESSING TRULY WRITE ONCE RUN ANYWHERE IS VERY MUCH USEFUL ACROSS HETEROGENEOUS COMPUTING ENVIRONMENTS.

JIKESRVM IS NOT FOR EVERYONE - PLEASE MAKE A NOTE OF IT.YOU COULD EXPERIMENT WITH OTHER JVMs AS WELL.

OR UNDERSTAND A SIMPLER JVM AND THEN EXPERIMENT WITH JIKESRVM -> RESEARCH VIRTUAL MACHINE.

TESTING IN PROGRESS AT THE TIME OF SUBMISSION.

READ OUT TECHNICAL NOTES PUBLISHED ON VIXRA.ORG

THANKS FOR UNDERSTANDING - DI.NIRMAL.

ACTUAL IMPLEMENTATION WILL CERTAINLY VARY.

KINDLY CHECK & SATISFY YOURSELVES.

[ Figure I – Algorithm I as a Simple Suggestion ]

## [II] Important Reference/s:

- [a] <a href="https://github.com/tejdnk-2019-ShortNotes">https://github.com/tejdnk-2019-ShortNotes</a>
- [b] <a href="https://www.youtube.com/watch?v=Ytja2JuVMlw">https://www.youtube.com/watch?v=Ytja2JuVMlw</a> Oracle Why Java and the JVM Will Dominate the Future of Machine Learning, AI, and Big Data?
- [c] <u>https://www.youtube.com/watch?v=ljuf1mYqAIE</u> Derek Ferguson Machine learning in Java from nothing to production in one hour.
- [d] <a href="https://www.youtube.com/watch?v=1YbPmkChcbo">https://www.youtube.com/watch?v=1YbPmkChcbo</a> Tensor Flow Federated[TFF].
- [e] https://github.com/JetBrains/KotlinDL Kotlin Deep Learning JetBrains.
- [f] https://www.jikesrvm.org/ JikesRVM Research Virtual Machine Experimental TEST BED.
- [g] https://blog.jetbrains.com/kotlin/2020/12/deep-learning-with-kotlin-introducing-kotlindl-alpha/
- [h] https://blog.jetbrains.com/kotlin/2020/12/kotlin-plugin-released-with-idea-2020-3/

## [III] Acknowledgement/s:

Sincere Thanks to all WHO made this happen in my LIFE. Non-Profit R&D. Inspiring Others Always.

[THE END]