

## **Exploring Scilab -> w.r.t JIMS & PIMS involving Machine Learning + Image Processing Using Java + Python -> A Simple Technical Notes - From - Dr.Nirmal - Current Member ante Inst UTD Dallas TX USA.[email id : hmfg2014@gmail.com]**

“Scilab, an extensible platform. To reuse previously developed code and applications, Scilab can be extended with Java, Python, TCL, Fortran or C/C++ components”.

***Some details on how it can be done:***

***[A] JIMS with Java -> Imagej + MongoDB + Scilab + Machine Learning -> Algorithm I.***

“JIMS module (Java Interaction Mechanism in Scilab) allows Scilab to instantiate Java objects. Thus, without any recompilation needed, Scilab is able to integrate and use your classes and interact with applications developed in Java”.

***[B] PIMS with Python -> Deepstack AI Server + ImageAI + Scilab + Machine Learning -> Algorithm II.***

“Just as with Java, Scilab is able to interact with any code written in Python thanks to its PIMS module”.

“Scilab is interoperable. You can use Scilab from other applications, or integrate your components written in other languages in Scilab:  
Extend Scilab with other languages: Java, Python, Tcl Tk, Fortran or C, C++,  
Use Scilab from Java, Python or C, C++ external application to perform calculations,  
Call Scilab from Excel, Isight, LabView, ProActive, Diet...”

**[ Source -> <https://scilab.in/scilabfeatures> ]**

***[C] Test our Algorithms using Scilab + ML + JIMS + PIMS -> to Probe Image Processing -> generate your own Algorithms.***

[i] <https://github.com/tejdnk-2019-ShortNotes> -> Plenty of examples for your trial -> Thanks from Dr.Nirmal - Informatics R&D.

[ii] [https://wiki.scilab.org/Machine%20learning%20in%20Scilab#In\\_the\\_industry](https://wiki.scilab.org/Machine%20learning%20in%20Scilab#In_the_industry) -> Scilab Website - from INRIA France.

[iii] <https://github.com/DeepQuestAI> ; [iv] <https://deepstack.cc/>

[v] <https://vixra.org/abs/1909.0364>

**Keep Hacking Novel Ideas and then generate Novel Algorithms -> Scilab + ML + Java + Python -> Image Processing.**

***[ The End ]***