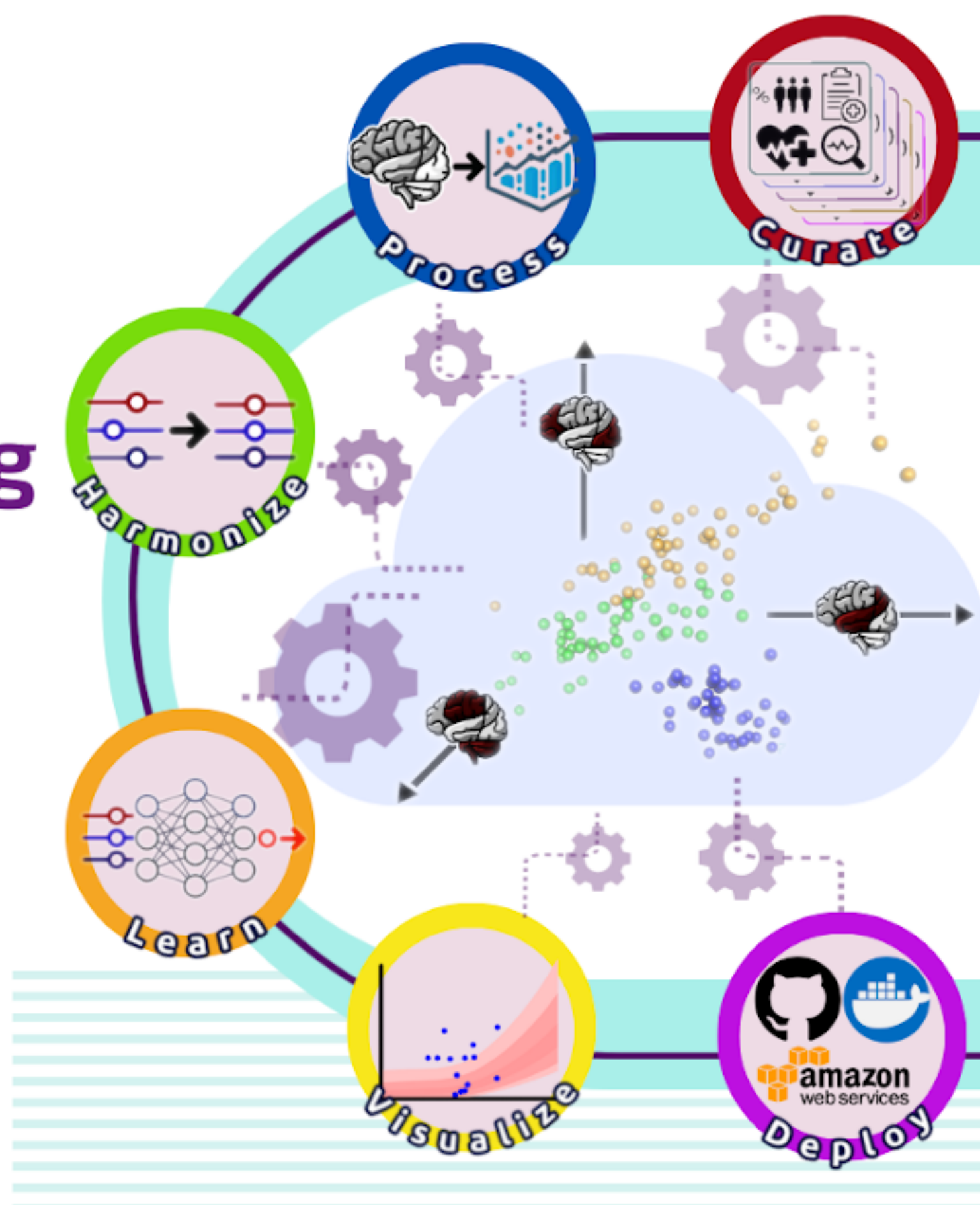


NiChart

Neuro Imaging Chart of AI-based Imaging Biomarkers



A framework to:

- Process multi-modal MRI images
- Harmonize to reference data
- Apply machine learning models
- Derive individualized biomarkers

"NeuroImaging Chart Dimensions"

NiChart aims to facilitate large-scale neuroimaging research and the wider use of advanced neuroimage analysis methods by non-experts

User-friendly web application hosted in the AWS cloud enables rapid processing of single scans and large image datasets

Data harmonization and pre-trained machine learning models provide imaging biomarkers (NiChart dimensions) that capture brain changes due to aging and disease

Users can use visualization tools to locate an individual's position within NiChart space in comparison to reference distributions

Participating Labs

- **AIBIL-UPenn**
Artificial Intelligence in Biomedical Imaging Laboratory
- **LINC-UPenn**
Lifespan Informatics & Neuroimaging Center
- **MLBD-UPenn**
Machine Learning for Biomedical Data Analysis
- **PennSIVE-UPenn**
Penn Statistics in Imaging and Visualization Endeavor

Team Members

Christos Davatzikos, AIBIL	Russell Shinohara, PennSIVE
Guray Erus, AIBIL	Haochang Shou, PennSIVE
Alexander Getka AIBIL	Ren Zheng, PennSIVE
George Aidinis, AIBIL	Fan Yong, MLBD
Di Wu, AIBIL	Hongming Li, MLBD
Kyle Baik, AIBIL	Yuncong Ma, MLBD
Yuhan Cui, AIBIL	Theodore Satterthwaite, LINC
Dhivya Srinivasan, AIBIL	Matthew Cieslak, LINC
Mark Bergman, AIBIL	Taylor Salo, LINC
Ilya Nasrallah, AIBIL	Daniel Wolf, Penn Psychiatry

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<https://aibil.med.upenn.edu/software/#nichart>



https://github.com/CBICA/NiChart_Project



https://twitter.com/NiChart_AIBIL

