

# Machine learning for Neuro-Imaging

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## Reshaping brain into a medium-shaped brain

- Voxel Brain Morphometry

## Machine-Learning on brain, classifiyng, ...

## Resources

### Sites

- [Human Brain Project \(EU\)](#)
- [Nilearn](#)
- [Scikit learn](#)

### Papers

#### 1. Main

- Technical article [Machine learning for neuroimaging with scikit-learn](#)
- Use case [Machine learning framework for early MRI-based Alzheimer's conversion prediction in MCI subjects](#)
- **SUPER IMPORTANT** (limitation) [Why voxel-based morphometric analysis should be used with great caution when characterizing group differences](#)
- About algorithms [Genetic Algorithms for Finite Mixture Model Based Voxel Classification in Neuroimaging](#)
- Idem [Current Methods in Medical Image Segmentation](#)

#### 2. Derivatives

- [Can cognitive processes be inferred from neuroimaging data?](#)
- [Elucidating a Magnetic Resonance Imaging-Based Neuroanatomic Biomarker for Psychosis: Classification Analysis Using Probabilistic Brain Atlas and Machine Learning Algorithms](#)
- Not really Datascience but important to understand how it works [Voxel-Based Morphometry—The Methods](#)