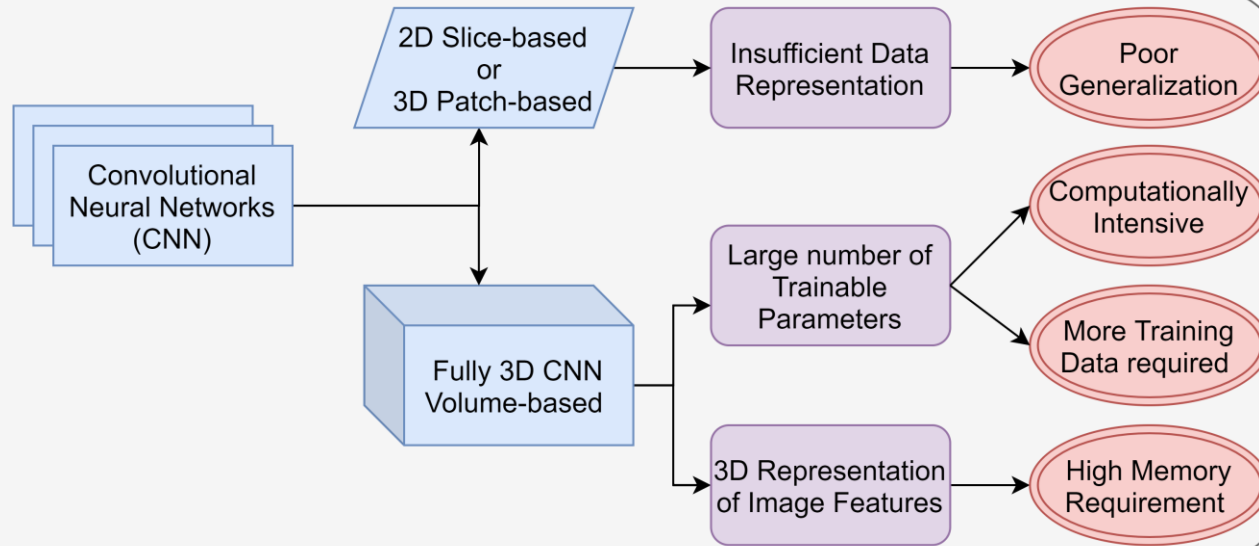
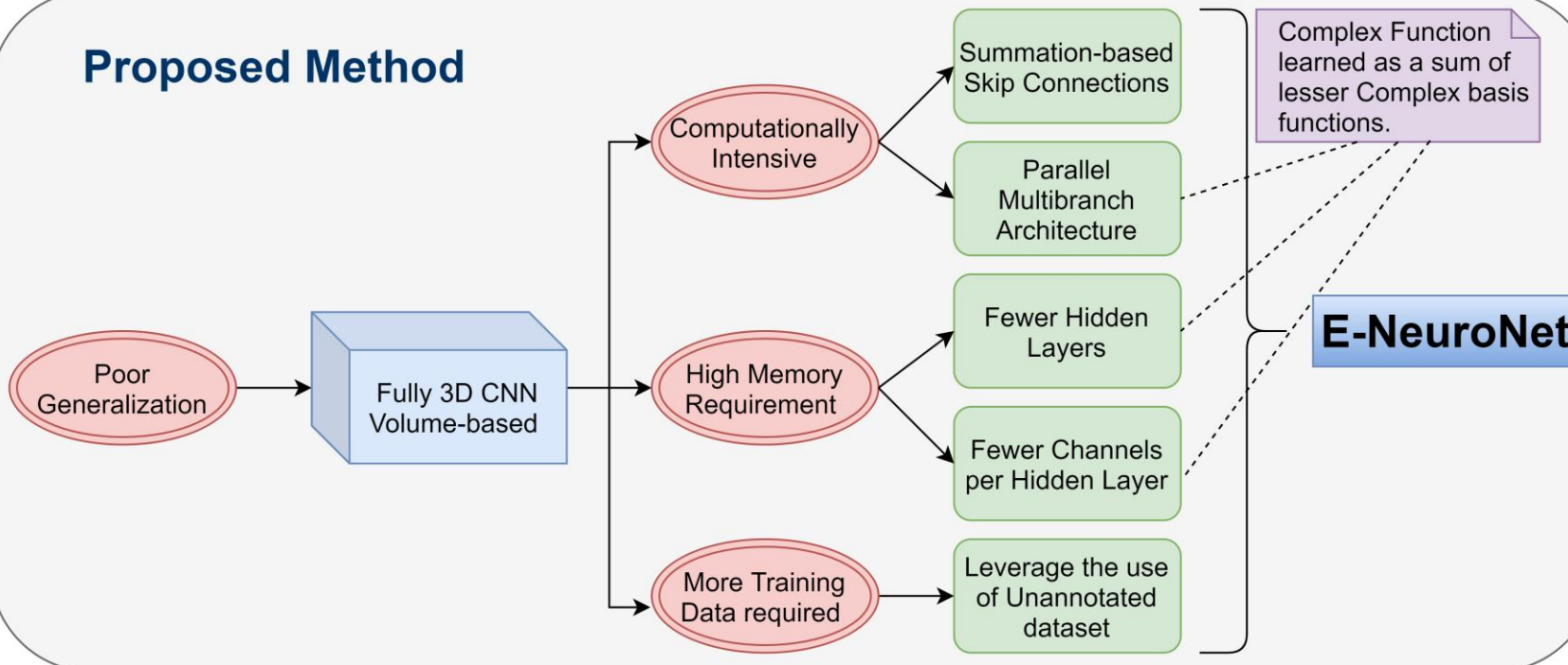


Learning-based Brain Parcellation Methods

Problem



Proposed Method



E-NeuroNet

An Efficient 3D CNN for Fast and Accurate Segmentation of Neuroimages

- ❖ **FIRST FULLY 3D** CNN architecture for Brain Parcellation
- ❖ **50X** faster on GPU and **300X** faster on CPU
- ❖ **SAME MEMORY** requirement as 2.5D methods
- ❖ **HIGHLY GENERALIZABLE** on unseen datasets of different age group and disease condition
- ❖ **LIMITED QUANTITY** expert labelled scans required for training