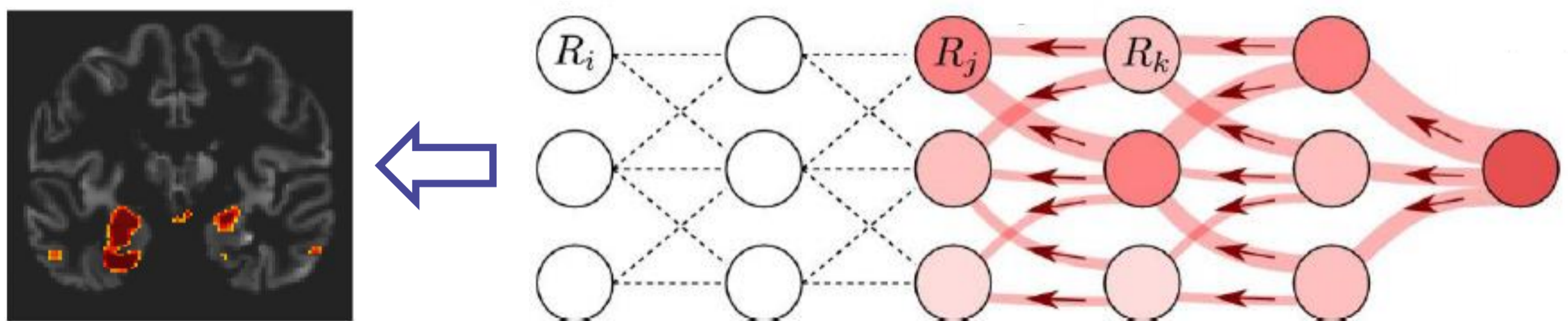


# Convolutional neural network



## Layer-wise relevance propagation



## Interactive visualization of relevance maps

The screenshot shows the 'Online AD brain viewer' web application. The browser address bar displays <https://explanation.net/InteractiveVis>. The interface includes a sidebar with subject information (AD - ID 4211, Age: 81, Sex: female, TIV: 1177 cm<sup>3</sup>) and a prediction (Scan predicted as 99.44% Alzheimer's). The main area displays three brain slices (Coronal, Axial, and Sagittal) with relevance maps overlaid. A color scale on the right indicates relevance values from -1 (blue) to 0.5 (red). The interface also features a 'Relevance threshold' slider set to 0.40, a 'Distribution of cluster sizes' histogram, and a 'Minimum cluster size' slider set to 50. The 'Region' is set to 'Left Hippocampus', with a cluster size of 457 voxels (1542 mm<sup>3</sup>), a mean intensity of 0.78, and a peak intensity of 1.00.