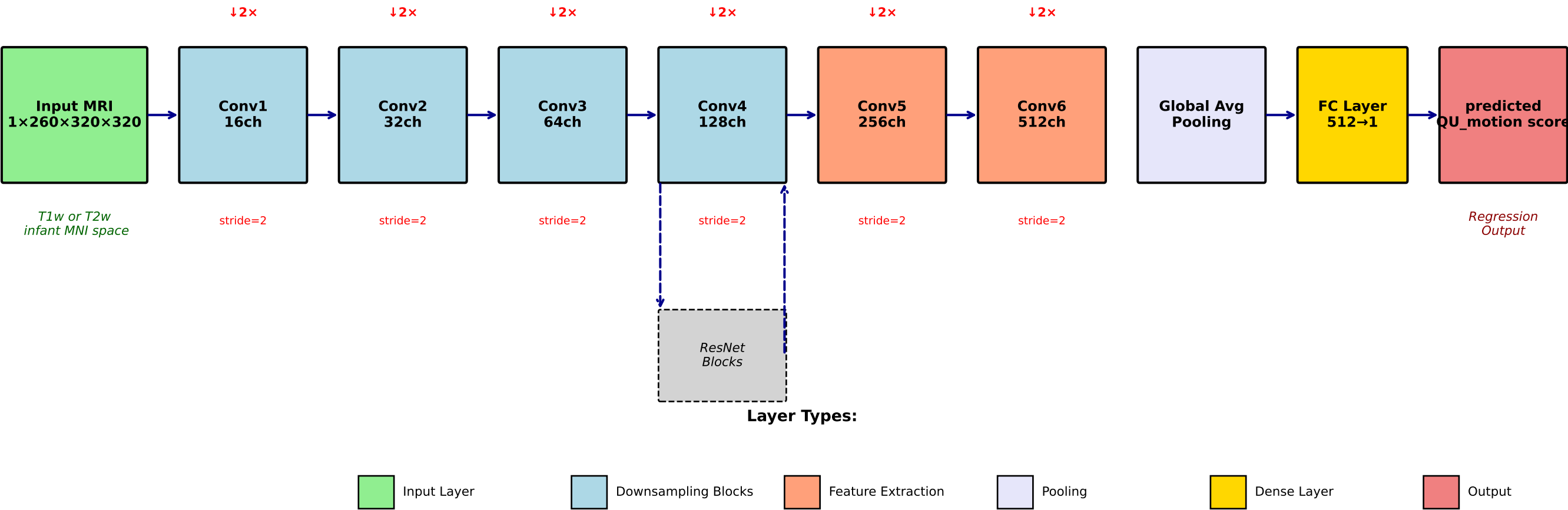


Automated-QC (Anat) ResNet Architecture (MONAI Regressor)

3D Brain MRI → Predicted QU_motion score



Key Architecture Features:

- 3D Convolutions throughout • Progressive downsampling (strides=2) • 6 convolutional stages
- Channel progression: 16→32→64→128→256→512 • Global average pooling → Dense layer → Single output

Input: T1w or T2w infant MNI MRI (260×320×320 voxels) | Output: Predicted QU_motion score