

Infinite Data Augmentation

With Deep Learning

빅트코인



INDEX



Segmentation Sample



Semi - Diagram



Full - Diagram



Generated Data



PCA & t-sne

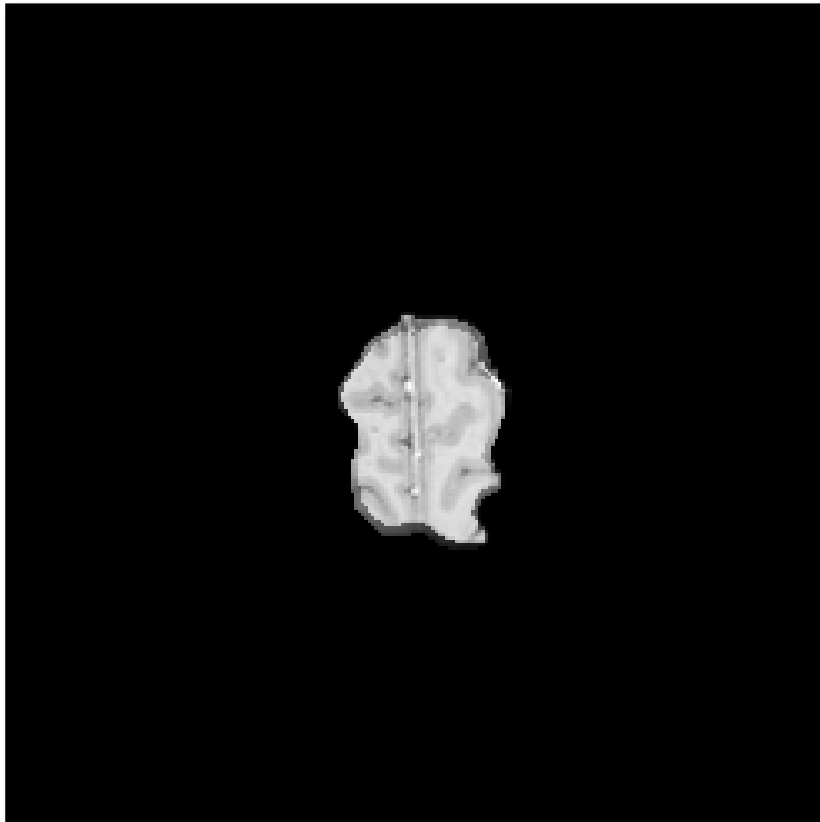


Score - Dice Coefficient

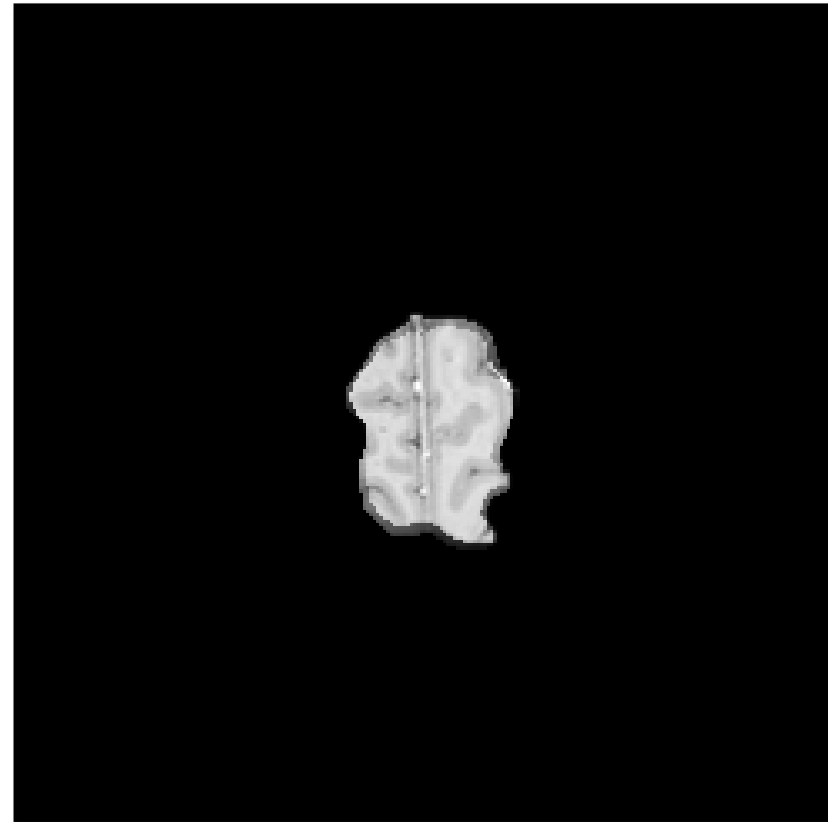




Segmentation Sample



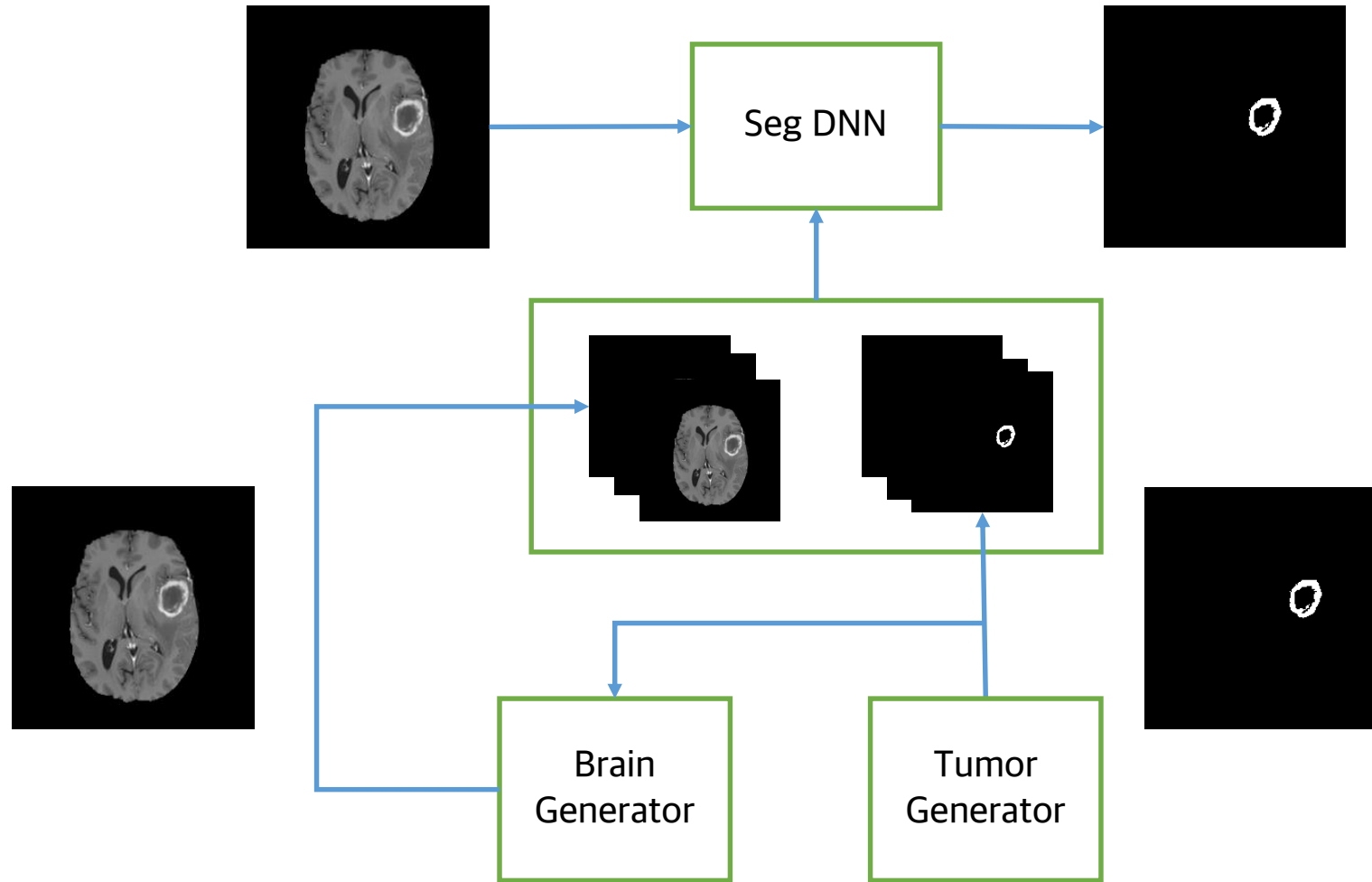
Real Brain



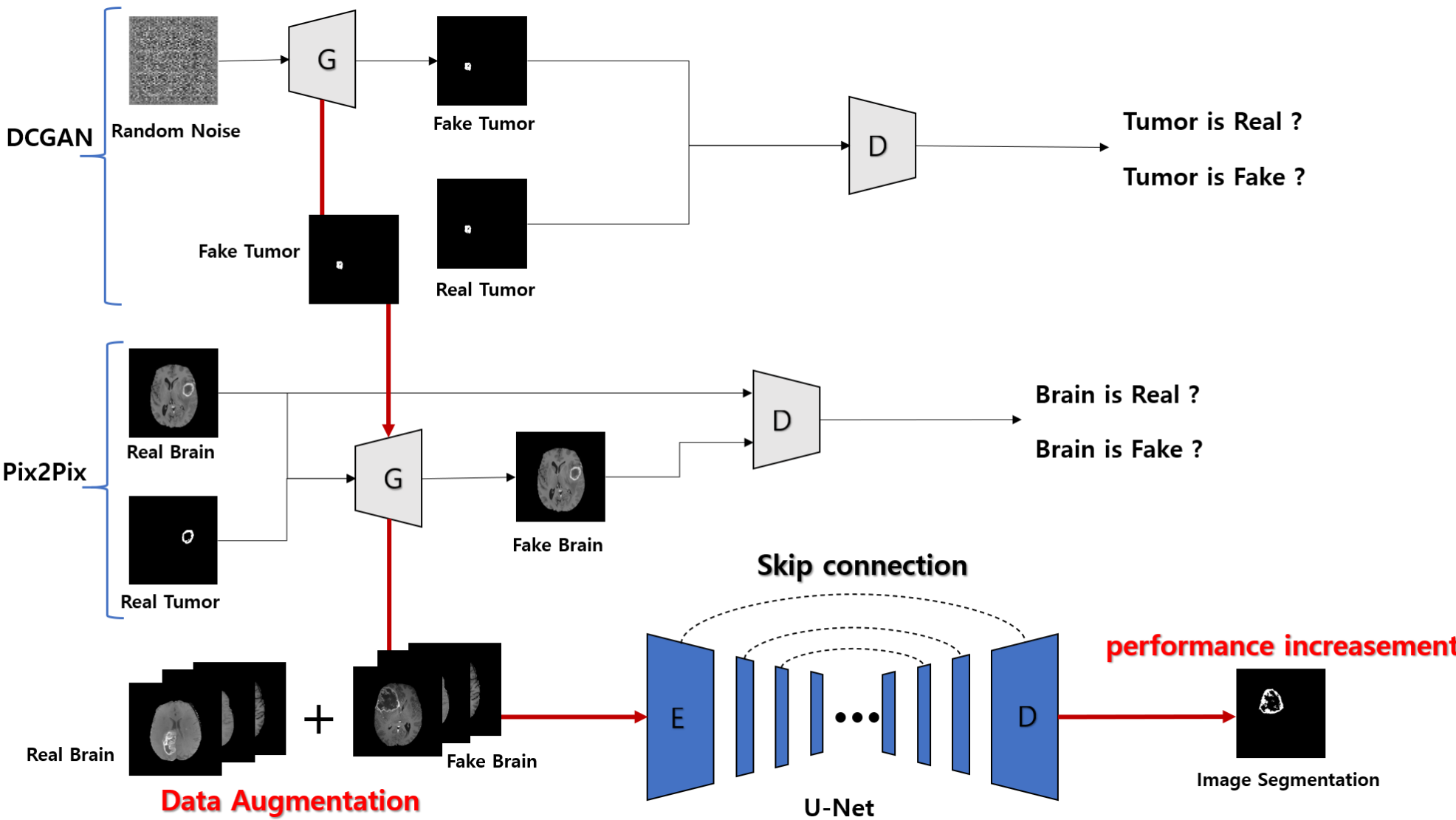
Segmentation Brain Tumor Using Seg-DNN



Semi - Diagram

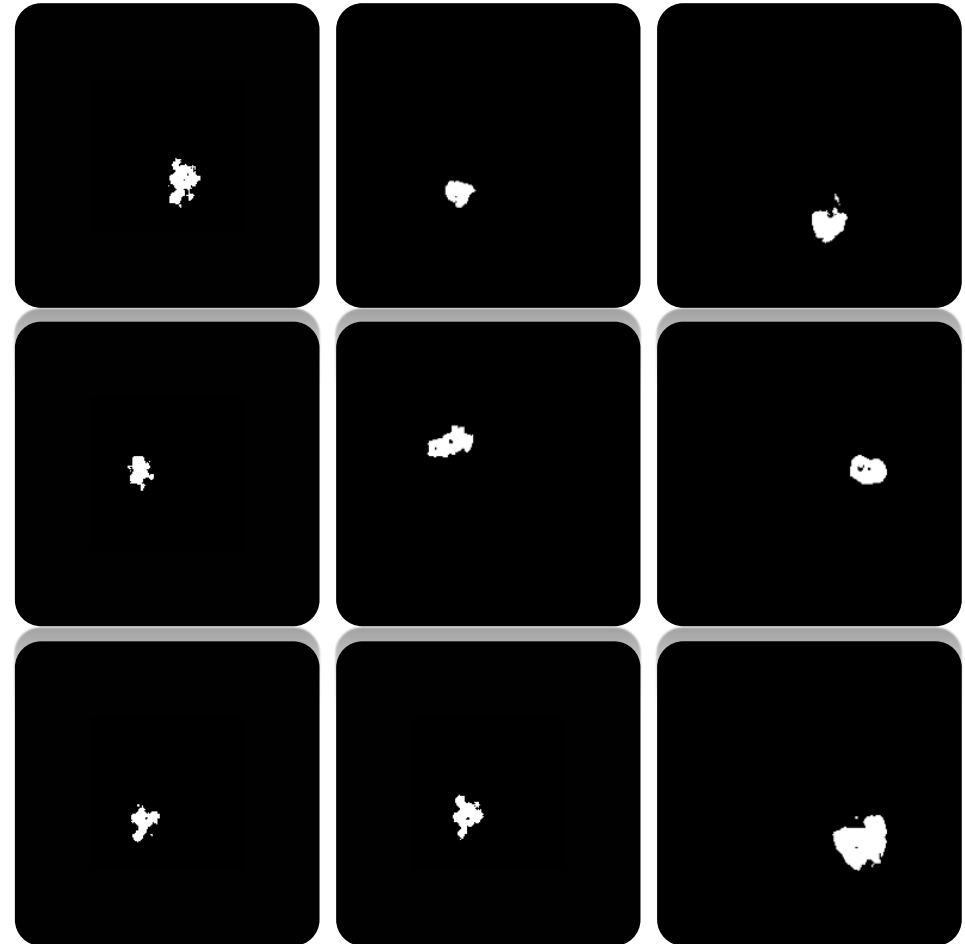
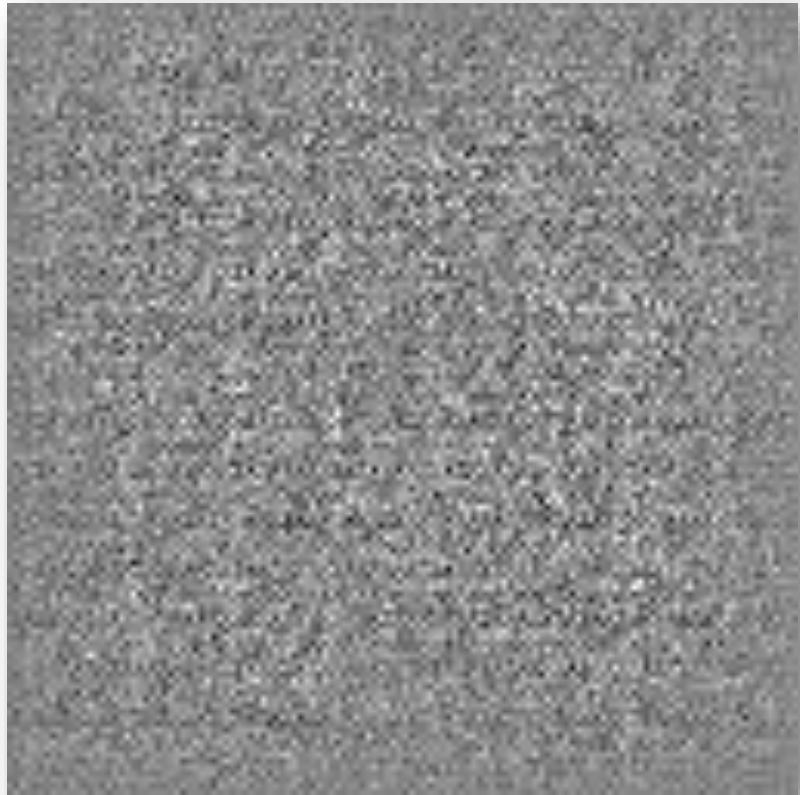


Full - Diagram





Generate Tumor

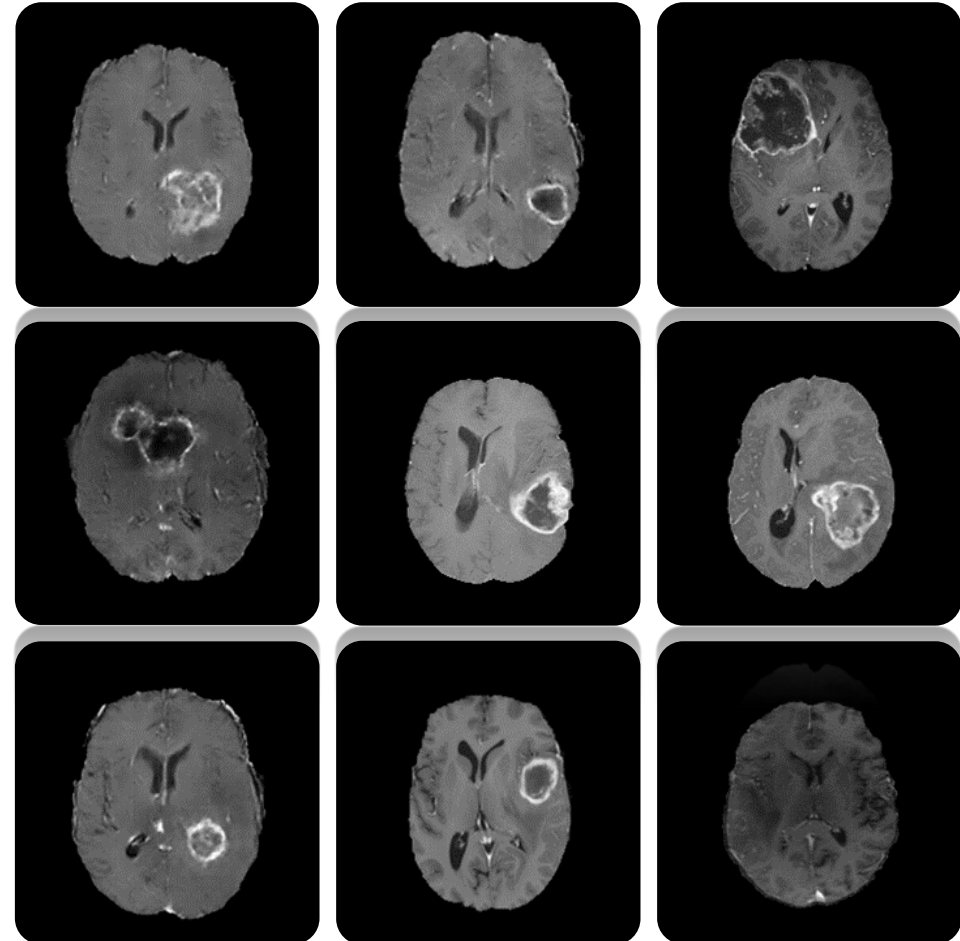
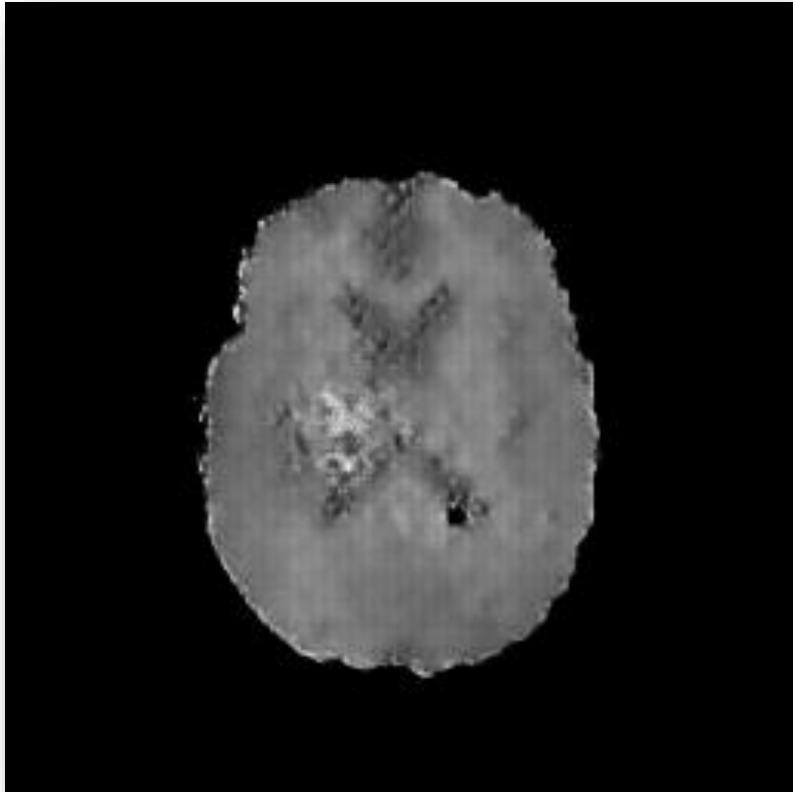


Generate Synthetic Label Data Using Tumor Generator





Generate Abnormal Brain

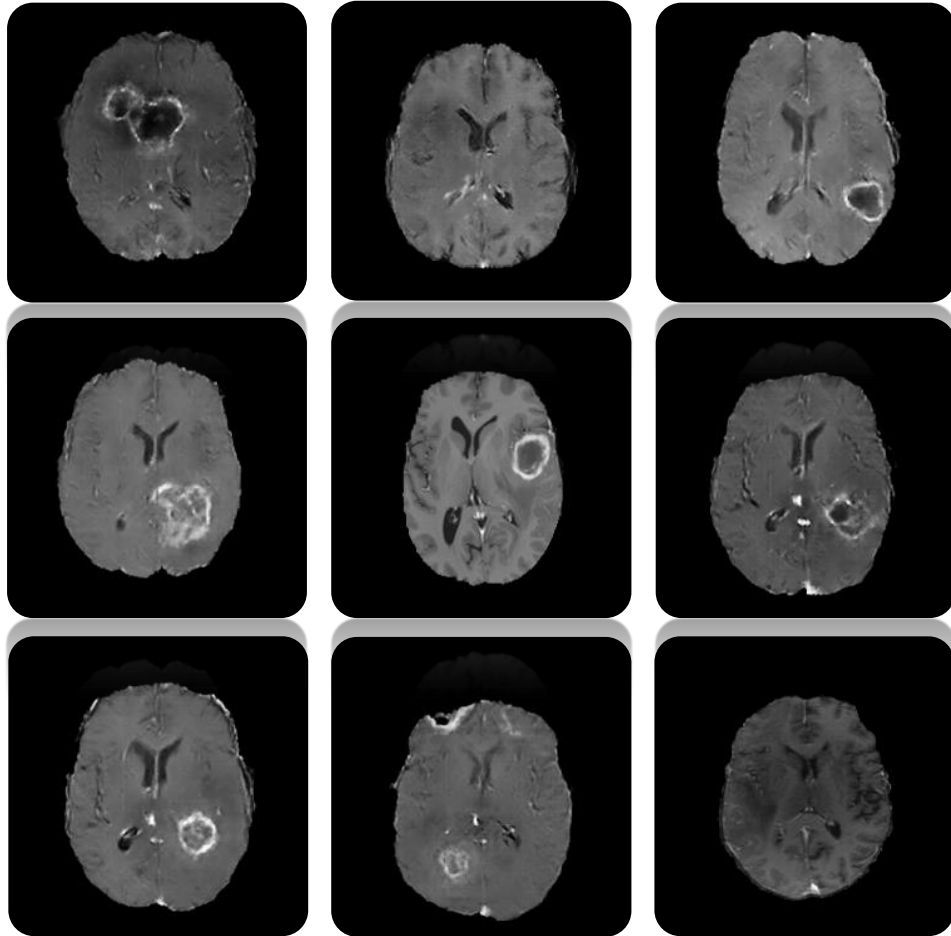


Generate Synthetic Abnormal Brain Data Using Brain Generator

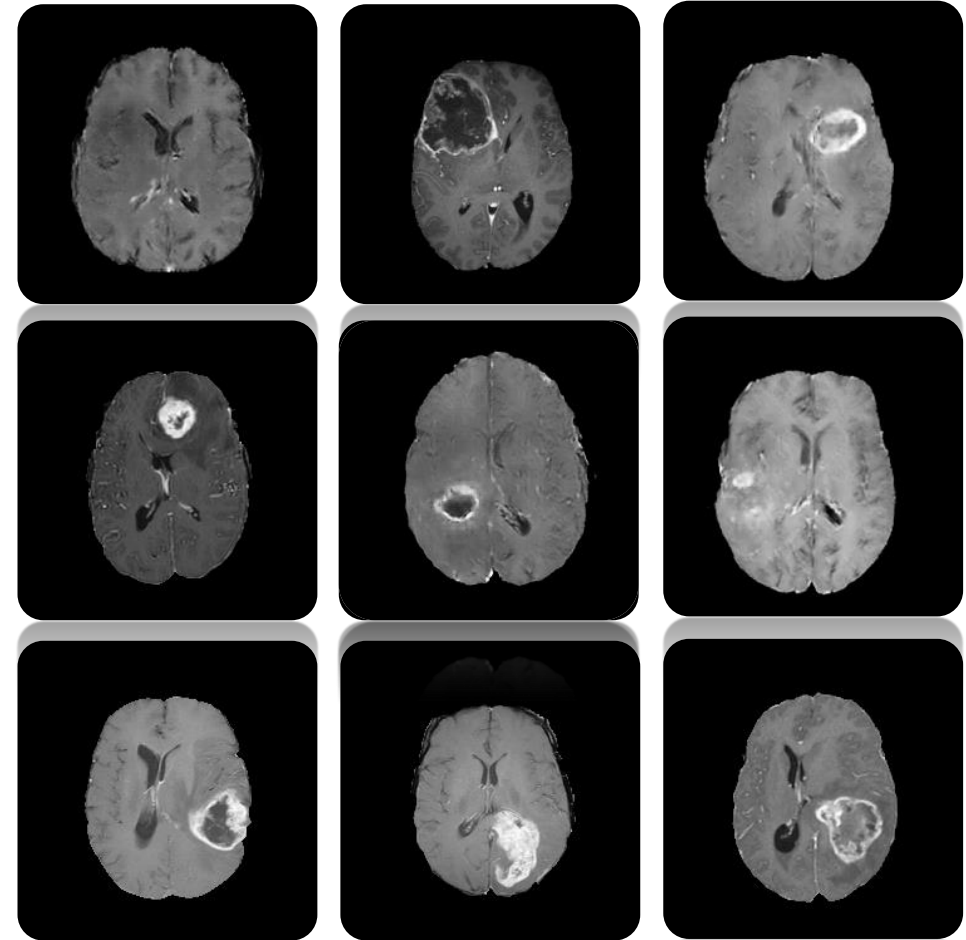




Generated Data



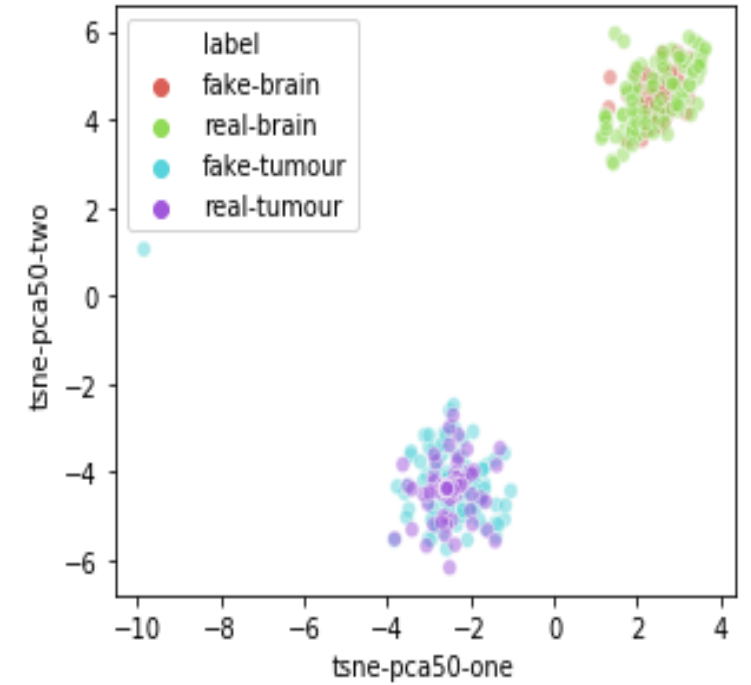
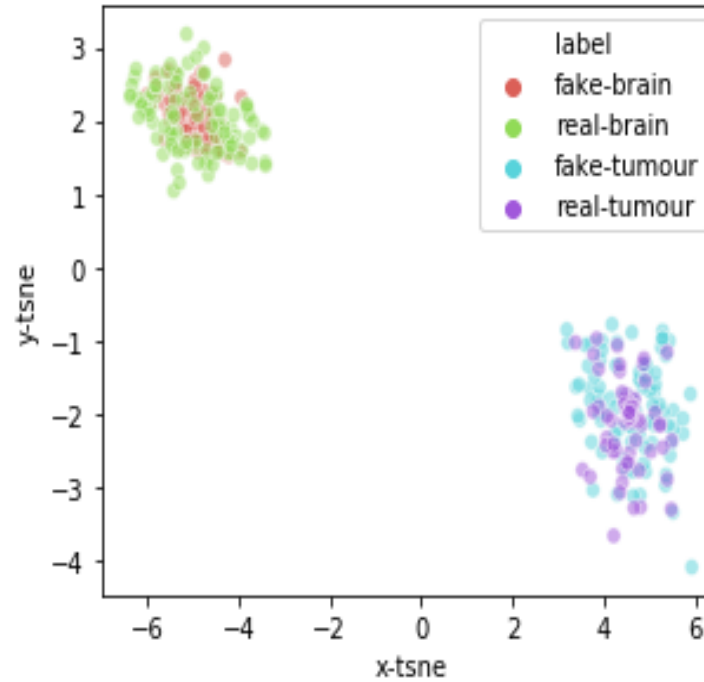
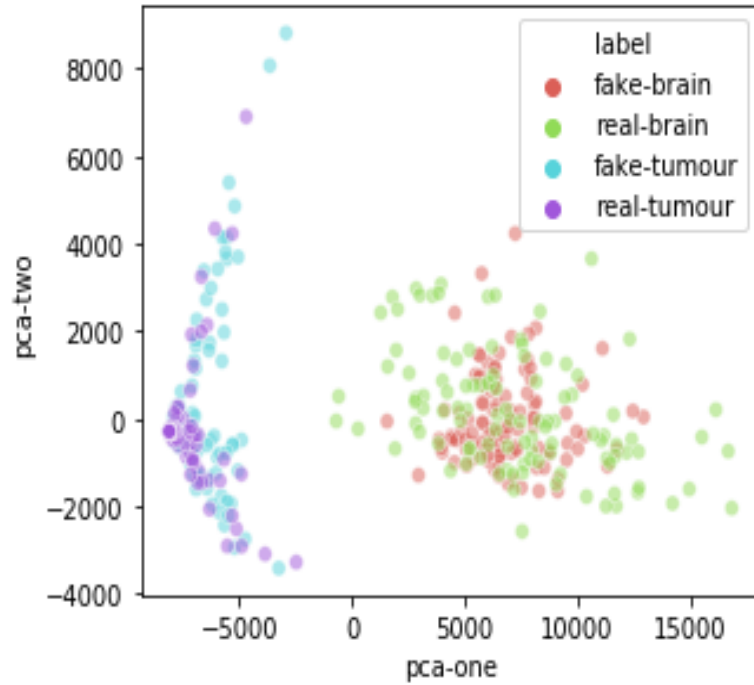
Real Brain Tumor



Fake Brain Tumor



PCA & t-sne



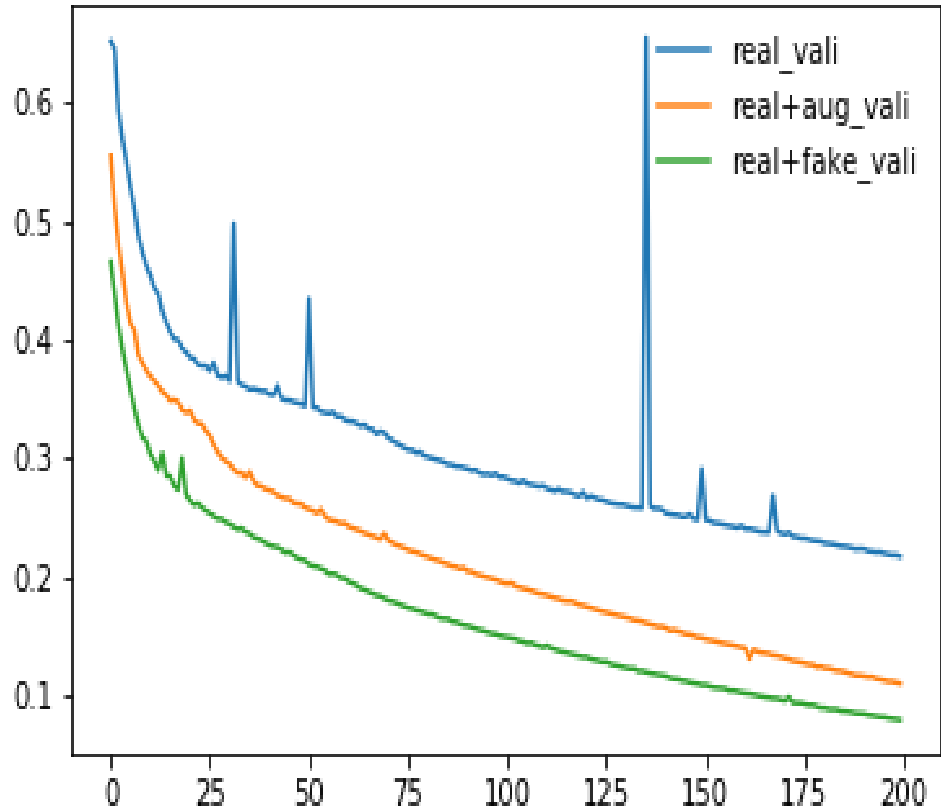
From 240 x 240 Image to 2 Dimension



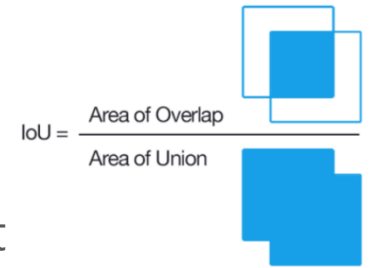


Score

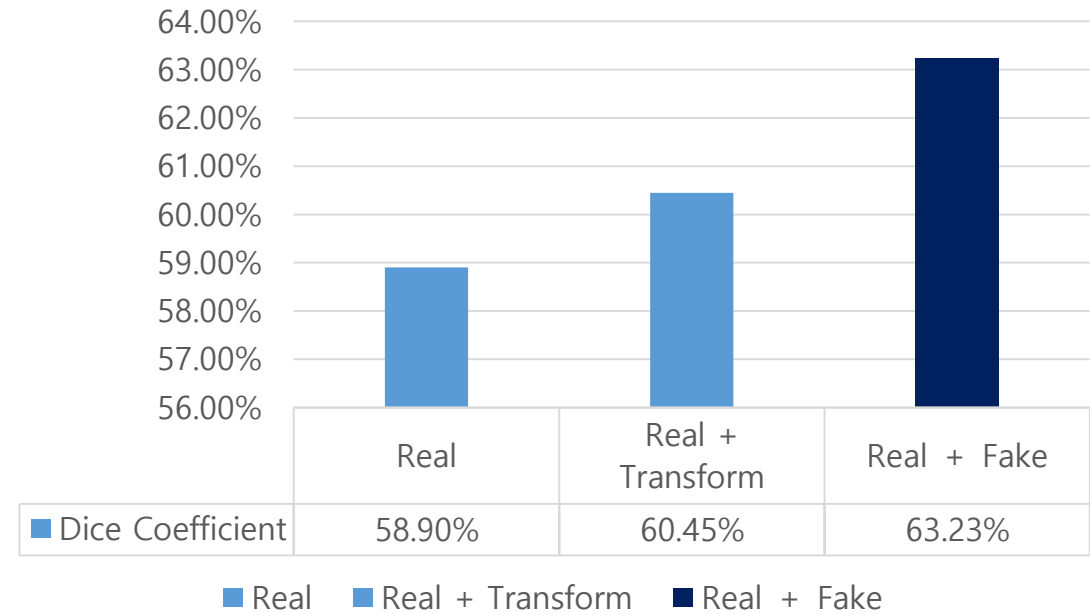
Loss



Seg-DNN Model Loss



Dice Coefficient



Dice Coefficient



Infinite Data Augmentation

With Deep Learning

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Chi Hyeon Gyu

with prof. Lim Sung Hoon



BIGtCOIN



Thank you

For your attention

