

Research Proposal

Area : Medical Image Processing using Deep learning (Topic is not decided yet)

Introduction : Creating a novel deep learning architecture for effective object detection in complicated scenarios of medical in image . Researching novel convolutional neural network (CNN) architectures, examining the application of transfer learning for quicker training, or examining how data augmentation methods affect object detection accuracy could all be part of this.

Literature Review : Deep learning algorithms are capable of efficiently eliminating noise from photos while maintaining crucial details. By making it possible to do tasks like picture enhancement, classification, and recognition with high accuracy, deep learning is transforming image processing. Image analysis and feature extraction are two areas where Convolutional Neural Networks (CNNs) excel. By identifying patterns in large datasets, these models are able to carry out tasks like object detection, noise reduction, and even picture perception simulation. So by using the advantages of deep learning techniques to provide a more accurate results in image processing and which could help in Medical field.