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Deep Learning Based Cervical Cancer Diagnosis Using Time-Lapsed Colposcopic Images

Cervical cancer causes the fourth most cancer related deaths of women worldwide. Early detection of cervical intraepithelial neoplasia (CIN) can significantly increase the survival rate of patients. In this paper, we propose a deep learning framework for the accurate identification of the cervical cancer is either positive or negative. Here we are using the Convolution Neural Network (CNN) based transfer learning which is a ResNet50 of the deep learning. The cnn is used to train the dataset of the cervical cancer which we have collected some of the images from the internet source and some are been augmented. CNN performs accurately and predicts the disease either as positive or negative.

Domain: Python / Deep Learning

Technology: Python