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DEEP CONVOLUTIONAL TRANSFER LEARNING APPROACH FOR BENGALI HANDWRITTEN CHARACTER RECOGNITION FROM DOCUMENT IMAGE

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Handwritten character recognition from a document image is no-doubt a challenging task. Optical Character Recognition (OCR) research success has limited to very few scripts like Roman, English and Chinese. Bengali literature is very rich and voluminous. For digitization of handwritten manuscripts, OCR needs higher recognition rate. In this paper, a transfer learning approach is applied. A customized convolution neural network with 34 layers model is applied upon Bengali handwritten font image CMATERDb3.1.2 dataset and gives recognition results of 98.96% accuracy.