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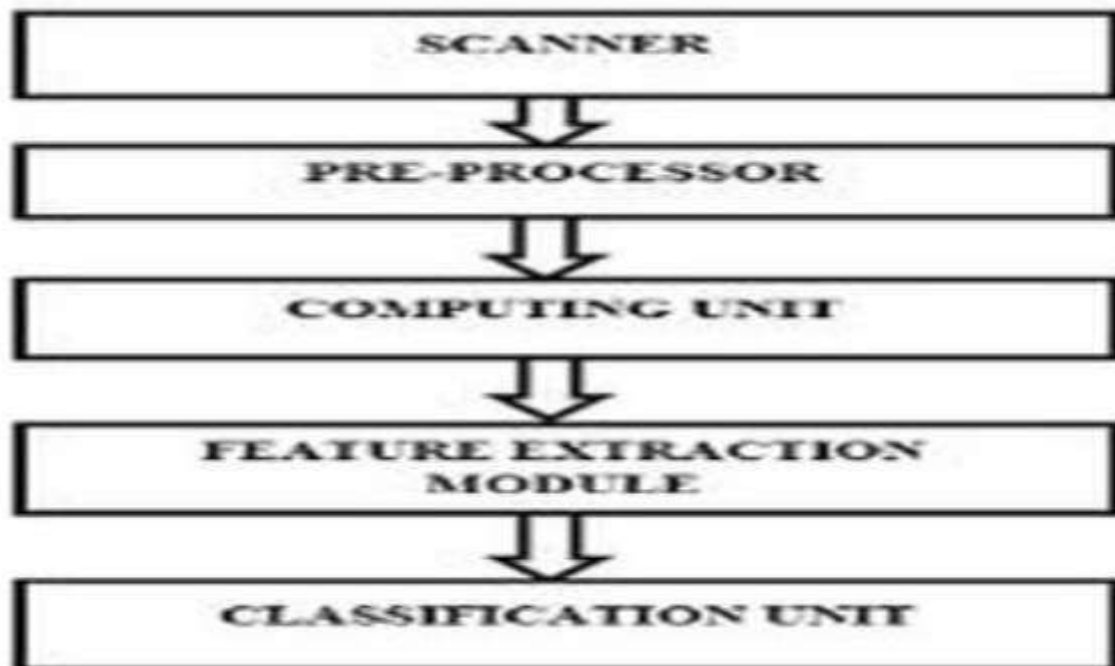
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(57) Abstract :

A bilingual handwritten digit recognition system comprise of at least one scanner associated with the system for scanning image(s) related to bilingual digit(s), a pre-processor linked with the scanner that removes background, filter out unwanted data from the image to smooth out and normalize the image, a computing unit connected with the pre-processor for converting the image(s) into binary image(s) and segmenting the binary image into isolated characters, a feature extraction module in association with the computing unit for extracting bilingual digit geometry and gradient feature(s) via an edge detection protocol from the isolated characters and a classification unit in connection with the module that have multiple layers and filters to map the feature(s) for classifying the feature(s) into appropriate groups via a local binary convolution neural network protocol.



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