



Progress

The image features a light blue background with a series of overlapping, wavy, horizontal bands in various shades of blue. These bands create a sense of movement and depth. In the center of the image, the word "Progress" is written in a bold, black, sans-serif font.

Progress

Initial Research and Literature Review

Title	Methodology	Strengths	Limitations
An attention-based method for offline handwritten Urdu text recognition (ICFHR, 2020)(Anjum and Khan 2020) ¹	<ul style="list-style-type: none">•Encoder Decoder Based•CNN, DenseNet, BLSTM	<ul style="list-style-type: none">•Position Change•Attention Mechanism•Relevant Context	<ul style="list-style-type: none">•Prediction by text character•Separate model for error correction
A convolutional recursive deep architecture for unconstrained Urdu handwriting recognition (Neural Computing & application, 2021) ²	<ul style="list-style-type: none">•Urdu Handwriting•Convolution + BLSTM•Lastly n-gram model	<ul style="list-style-type: none">•State of art approaches•Information loss avoid•Image quality	<ul style="list-style-type: none">•Separate n-gram model•Lack of longer context•Prone to Error
A Computationally Efficient Pipeline Approach to Full Page Offline Handwritten Text Recognition (ICDARW, 2019) ³	<ul style="list-style-type: none">•Word by word Localization•CNN-BLSTM + Language model	<ul style="list-style-type: none">•Line by Line less expensive•Multi-down sampled•Combining BLSTM	<ul style="list-style-type: none">•Localize the text word by word•Space issue•Localize only English text
An online cursive handwritten medical words recognition system for busy doctors in developing countries for ensuring efficient healthcare service delivery (Scientific reports, 2022) ⁴	<ul style="list-style-type: none">•Line sequence from image•BLSTM network	<ul style="list-style-type: none">•SOTA results•The whole sequence of characters•Taking context in account	<ul style="list-style-type: none">•Works only for online handwritten text extraction•Requires doctors to use a smartpen to write.
Multilingual handwritten numeral recognition using a robust deep network joint with transfer learning (Information Sciences (Elsevier),2021) (Fateh, et al. 2021) ⁵	<ul style="list-style-type: none">•Multilingual Handwritten numbers•Deep CNN•Limit to Chinese, Arabic, English, Kannada, Persian, and Urdu•Language recognition and digit recognition•Best model parameters for the recognition of digits	<ul style="list-style-type: none">•SOTA Result•Employing Transfer Learning	<ul style="list-style-type: none">•Limited to numbers only•Multiple languages can lead to error in text localization•High error rate possible