Literature Review:

There have been various methods used for extraction of text from epigraphic records found on rock edicts and hero stones. The general procedure follows two major steps, pre-processing of the inscription image, followed by segmentation and classification of the inscribed characters.

As shown by S.Sundareswari , Dr.I.Kaspar Raj [1] and Abhishek Tomar , Minu Choudhary , Amit Yerpude [2], for pre-processing of the image various filtering techniques are applied for enhancement of stone inscriptions and reduction of the noise in the image. The filters are classified into mainly two types Spatial filter domain and Frequency domain. Amongst the filtering techniques Median filter gives best results for salt and pepper noise and Gaussian noises are removed through wiener filter. For special cases non-linear bilateral, sauvola’s, niblack’s or hybrid filters produce better results.

The use of ANN with Back Propagation model and SVM for recognition of Ancient scripts from stones is shown by K. DurgaDevi, Dr. UmaMaheswari [3] their approach includes using digital camera to capture epigraphical inscriptions directly from the stones, and applying OCR techniques to it. The result is then evaluated using SVM and ANN with Back propagation model along with KNN classifier. The accuracy of this model came upto 66%.

Merline Magrina M, & Santhi M. [4] used Ensembled learning classifier to find the exact mapping of ancient Tamil scripts. In this paper the noise in the images are removed and segmentation is achieved using bounding boxes. The relevant features then extracted are applied to the Ensembled learning classifier. Among the KNN based classifiers the Ensembled based KNN methodology is found to be best with the performance metrics for segmentation and recognition rates of 97.11% and 96.52% respectively.

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