HANDWRITING RECOGNITION

BVRIT HYDERABAD College of Engineering for Women

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18WH1A1221 - K.MONIKA

18*WH*1*A*0503 – *A.SUSHMA*

18*WH*1*A*0543 – *M.CHARITHA*

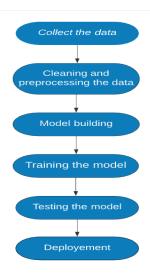
18WH1A0243 — C.PHANISUPRASANNA

18WH1A0483 - HEENASHAHANAZ

PROBLEM STATEMENT

Handwriting recognition, classifying each handwritten word in notes is a challenging problem due to huge variation in individual writing styles. This project classifies the handwritten paragraph into digital text.

APPROACH



DATASET

- The dataset we are using is "Handwriting recognition" it is taken from Kaggle.com.
- This dataset consists of more than 4,00,000 handwritten words.
- It consists of training, testing and validation data.

TECHNICAL STACK

Languages

Python

Libraries

- TensorFlow
- Keras
- Numpy
- Pandas

Tools

- Google Colab
- LaTeX

CHALLENGES FACED

- Setting limitations for dataset.
- Understanding and implementing CTC.
- Creating model with bidirectional LSTM.

REFERENCES

- https://www.pyimagesearch.com/2020/08/24/ocrhandwriting-recognition-with-keras-and-tensorflow/
- https://www.kaggle.com/landlord/handwriting-recognition
- https://towardsdatascience.com/intuitively-understandingconnectionist-temporal-classification-3797e43a86c

REPOSITORY

 https://github.com/monikaketepally/HandwritingRecognition

