

# HANDWRITING RECOGNITION

BVRIT HYDERABAD College of Engineering for Women

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18WH1A1221 – *K.MONIKA*

18WH1A0503 – *A.SUSHMA*

18WH1A0543 – *M.CHARITHA*

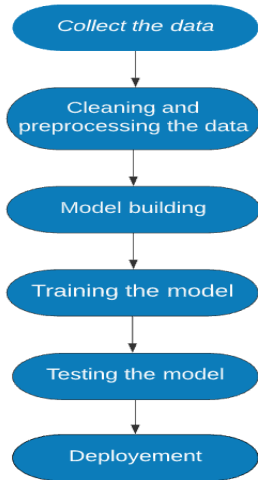
18WH1A0243 – *C.PHANISUPRASANNA*

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



# DATA SET

- The data set we are using is "Handwriting recognition" it is taken from Kaggle.com.
- <https://www.kaggle.com/landlord/handwriting-recognition>
- This data set consists of more than 4,00,000 handwritten words.
- It consists of training, testing and validation data.

# TECHNICAL STACK

## Languages

- Python

## Libraries

- Tensor Flow
- Keras
- Numpy
- Pandas

## Tools

- Google Colab
- LaTeX

# CHALLENGES FACED

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

# REFERENCES

- <https://www.pyimagesearch.com/2020/08/24/ocr-handwriting-recognition-with-keras-and-tensorflow/>
- <https://towardsdatascience.com/intuitively-understanding-connectionist-temporal-classification-3797e43a86c>

# REPOSITORY

- <https://github.com/monika-ketepally/HandwritingRecognition>



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