

# HANDWRITING RECOGNITION

BVRIT HYDERABAD College of Engineering for Women

June 10, 2021

18WH1A1221 – *K.MONIKA*

18WH1A0503 – *A.SUSHMA*

18WH1A0543 – *M.CHARITHA*

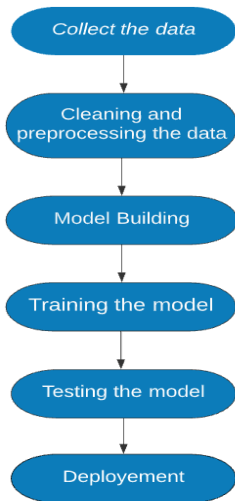
18WH1A0243 – *C.PHANISUPRASANNA*

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



# 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 3.8

## Libraries

- TensorFlow
- Keras
- Numpy
- Pandas

## Tools

- Google Colab
- LaTeX

# STATISTICS

- Number of lines of code : 350
- Number of functions in code : 4

# CHALLENGES FACED

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


# REFERENCES

- <https://www.kaggle.com/landlord/handwriting-recognition>
- <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>

 [monika-ketepally](#) / [HandwritingRecognition](#)

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

 main ▾


 1 branch




 0 tags


[Go to file](#)

[Add file ▾](#)

[Code ▾](#)

 **monika-ketepally** Add files via upload b76df36 12 days ago 🕒 4 commits

 Copy_of_ML_Project.ipynb	Add files via upload	12 days ago
 Handwriting_re_cognition.pdf	Add files via upload	12 days ago
 README.md	Update README.md	12 days ago


README.md 

## HandwritingRecognition

Machine Learning project to convert handwritten notes into digital text

About

No description provided

 Read

Release:

No release: [Create a new release](#)

Package

No package: [Publish your package](#)

Language

DEMO