Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE
(All Programs Accredited by NBA)
Department of Information Technology

Text Handwriting Conversion using GANs

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Contents

1. Introduction

- It is often difficult to read students handwriting and understand what's written.
- The speed can be improved by converting text into handwritten instead of writing.
- Some forms require the user to fill the form handwritten and are not available online.

2.Problem Definition:

- To convert text to handwriting.
- Creating lightweight model so it can be implemented in applications.
- To convert handwriting to text.

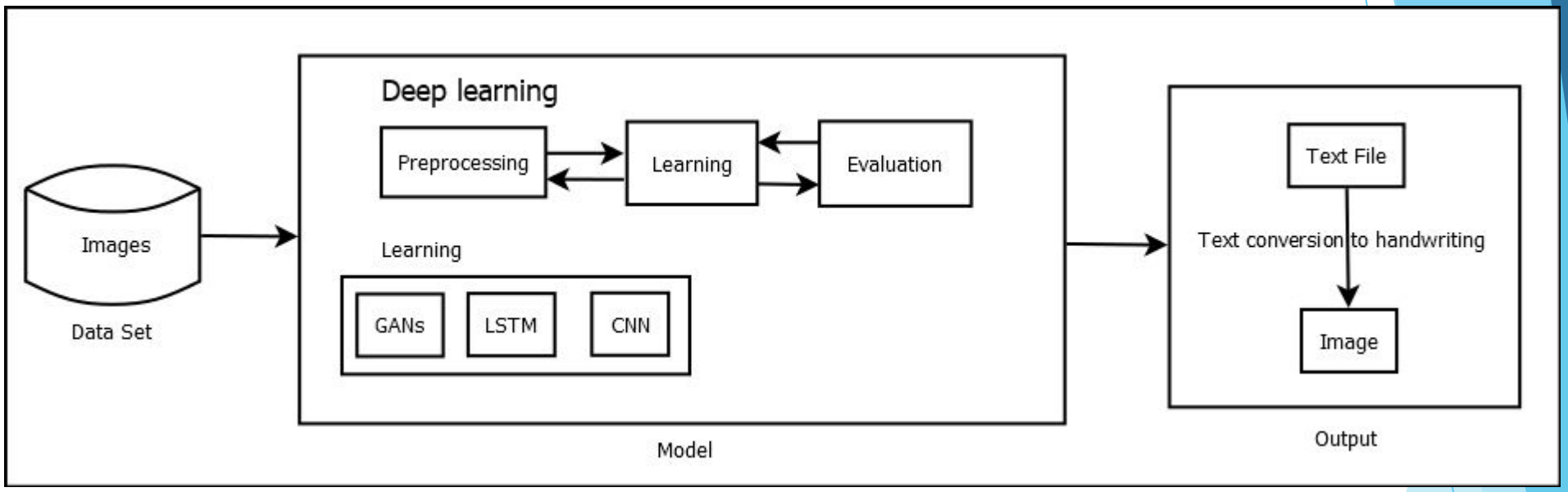
3. Objectives

- To recognize and convert the handwritten characters and numbers into digitized text characters.
- To convert text to handwritten characters using GANs and LSTM.
- To export the text file to a page.

4. Technology Stack

1. Python3, Anaconda, Jupiter Notebook
2. Numpy, SciKit, Pandas, TensorFlow, keras
3. FeatureTool

5.Proposed System Architecture/ Working

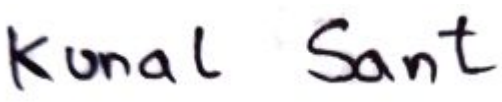


System Workflow

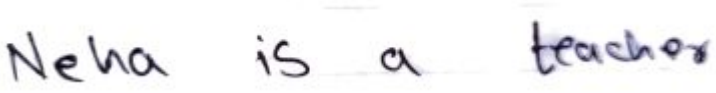
6. Prototype Design Demonstration

Image

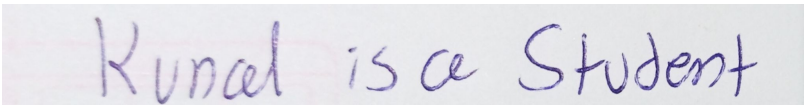
Text




```
Recognized: "Kunal  Sant"
Probability: 0.17584793269634247
```

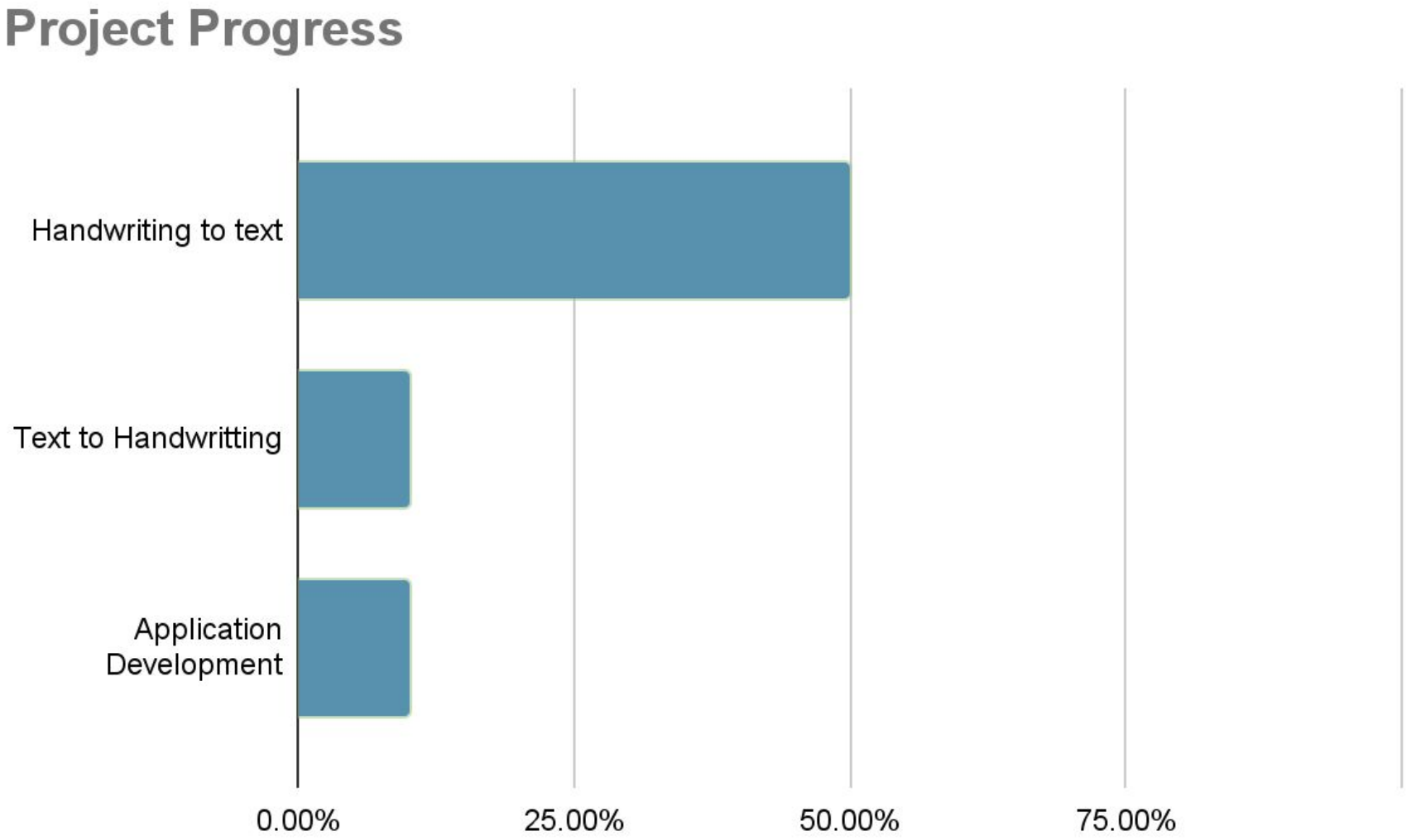



```
Recognized: "Neha is a teaches"
Probability: 0.059063810855150 22
```




```
Recognized: "Kunel is ce Student "
Probability: 0.025477349758148193
```

7.Implementation Status



8.Status of Paper Draft & Targeted Conference

1.2022 International conference on Advanced Computing and Intelligent Technologies

Thank You...!!