



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

Department of Information Technology



Text Handwriting Conversion using Neural Networks

Group No 5:

Aditya Saini(18104046)

Kunal Sant(18104011)

Sumeet Swain(18104008)

Guided by
Neha Deshmukh

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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.

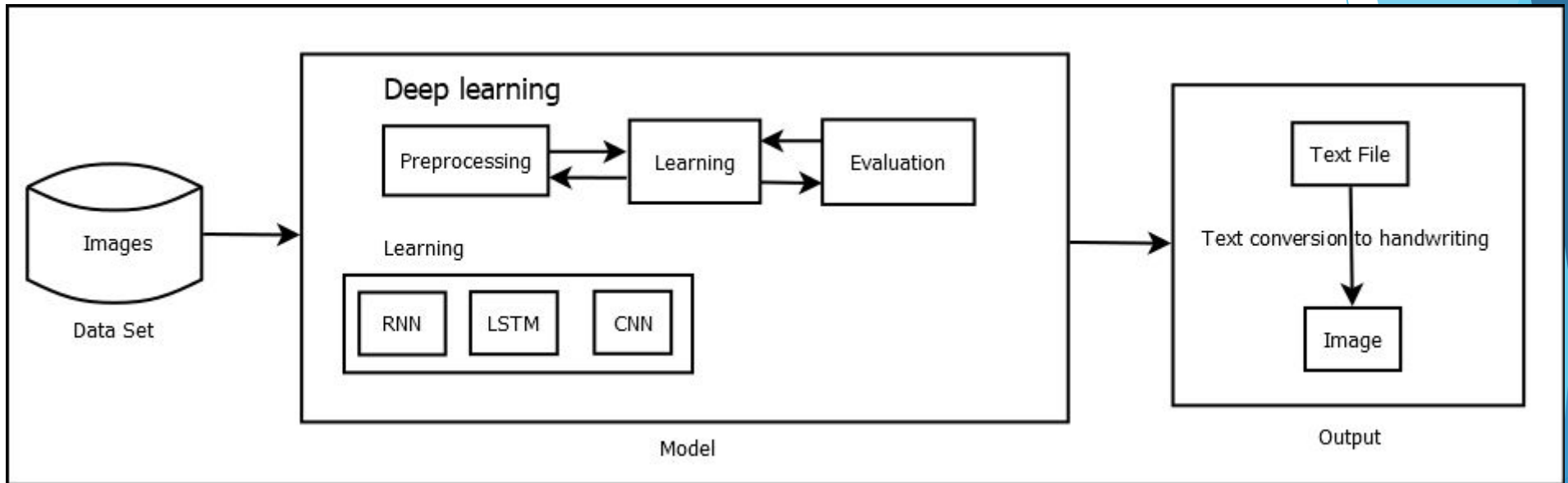
3. Objectives

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

4. Technology Stack

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

5. Proposed System Architecture/ Working



System
Workflow

6. Prototype Design Demonstration

Image

Kunal Sant

Neha is a teacher

Kunal is a Student

Text

Recognized: "Kunal Sant"
Probability: 0.17584793269634247

Recognized: "Neha is a teaches"
Probability: 0.05906381085515022

Recognized: "Kunal is ce Student "
Probability: 0.025477349758148193

Text to Handwriting

Neha is a teacher

. Neha is a teacher

Neha is a teacher

Neha is a teacher

Neha is a teacher

Neha is a teacher

Neha is a teacher

Neha is a teacher

Neha is a teacher

Kunal Sanl

Kunal Sanl

Kunal Sant

Kunal Sant

Kunal Sanl

Kunal Sanl

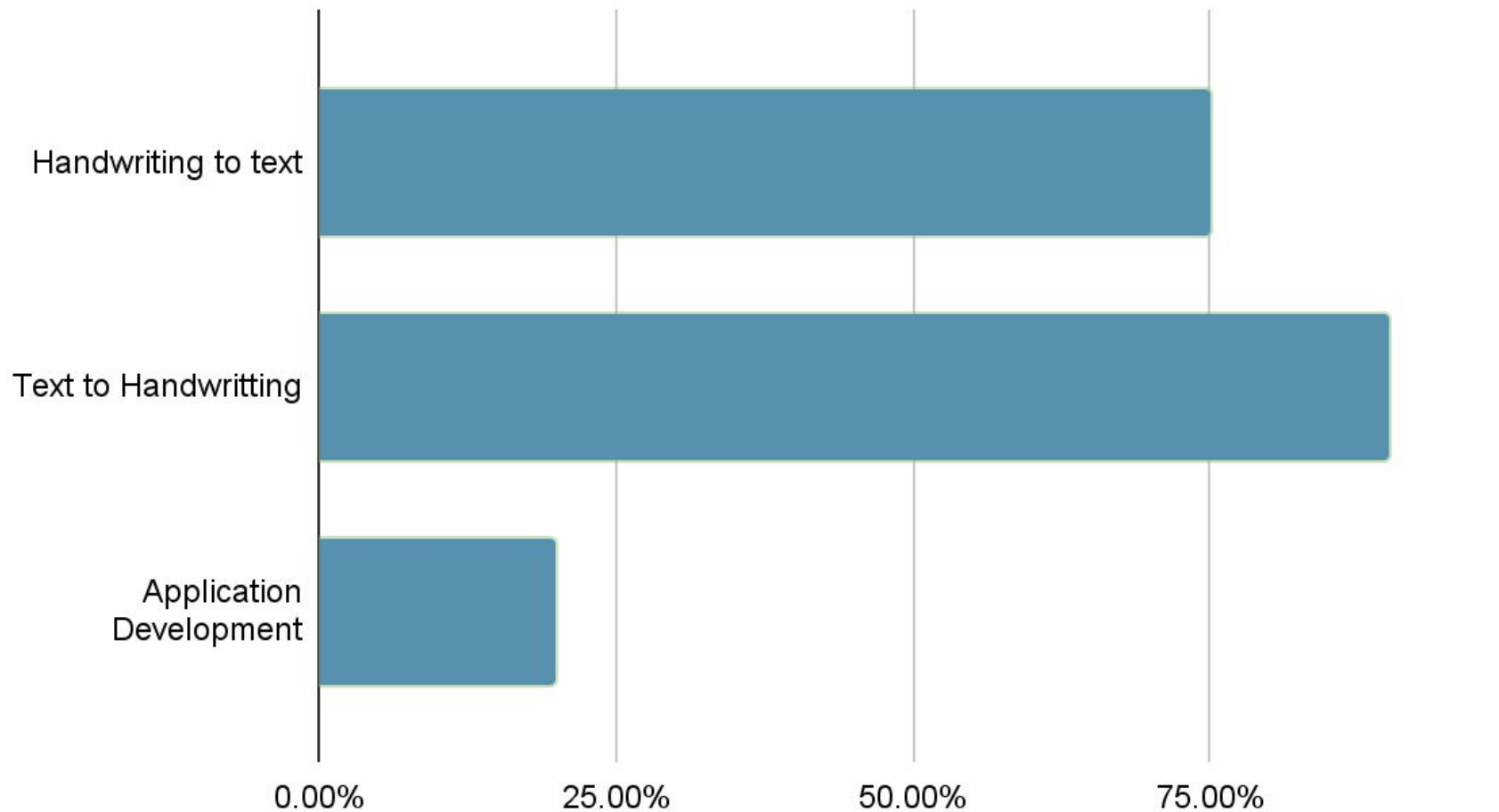
Kunal Sant

Kunal Sant

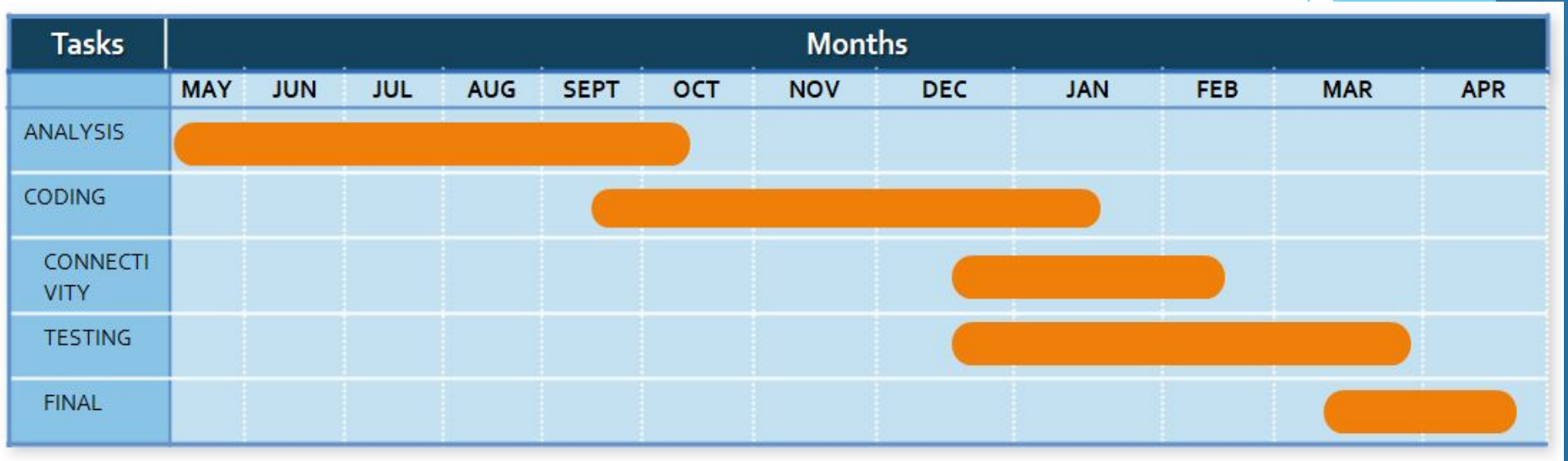
Kunal Sanl

7.Implementation Status

Project Progress



Gantt Chart



8. Status of Paper Draft & Targeted Conference

1. International Conference on Computational Intelligence and Innovative Technologies (ICCIIT – 2022)
2. THIRD INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING, INSTRUMENTATION AND CONTROL TECHNOLOGIES-2022

Thank You...!!