

# PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP

## PROJECT REPORT FOR WEEK 2

**Mentor Name:** Mrs. SELVI S

**Team Leader Name:** Praveen Keerthi N

**Team Members Name:**

1. Sanjay R
2. Praveen S
3. Praveen Keerthi N
4. Saravanan S

**Domain:** Artificial Intelligence (AI)

**Project:** A Novel Method for Handwritten Digit Recognition System

**Phase 2 Description:** Ideation Phase (Literature Survey, Empathize, Defining Problem Statement, Ideation).

## **ACTIVITY - WEEK 2(29 AUG - 3 SEPT):**

- From August 29th, we have been doing our literature survey on our selected project and gathered some information for the project development use-case by referring to research papers, conference papers, articles in professional journals, edited academic books, technical papers, existing solutions etc.
- And we have attended all our orientation training sessions as per the training calendar. While attending the training session, the given exercises were done side by side.

### **2.1 LITERATURE SURVEY ON THE SELECTED PROJECT & INFORMATION GATHERING.**

Collected the relevant information on project use-case, referred the existing solutions, technical papers, research publications etc.

**PAPER 1 - A NOVEL METHOD FOR HAND WRITTEN DIGIT RECOGNITION USING DEEP LEARNING.**

**PUBLISHER:** Rohini M (Assistant Professor), Dr. Surendran D (Assistant Professor)

**REFERENCE -**

[HTTP://TROINDIA.IN/JOURNAL/IJCSR/VOL6ISS6PART2/32-36.PDF](http://troindia.in/journal/IJCSR/VOL6ISS6PART2/32-36.PDF)

**PAPER 1 - A NOVEL METHOD FOR HAND WRITTEN DIGIT RECOGNITION WITH NEURAL NETWORKS**

**PUBLISHER:** MALOTHU NAGU (Assistant Professor), N VIJAY SHANKAR (Assistant Professor), ANNAPURNA K (Assistant Professor)

**REFERENCE -**

[HTTPS://CITSEERX.IST.PSU.EDU/VIEWDOC/DOWNLOAD?DOI=10.1.1.228.158&REP=REP1&TYPE=PDF](https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.228.158&rep=rep1&type=pdf)

**PAPER 1 – A NOVEL HANDWRITTEN DIGIT CLASSIFICATION SYSTEM BASED ON CONVOLUTIONAL NEURAL NETWORK APPROACH.**

**PUBLISHER:** Ali Abdullah Yahya (Anqing Normal University), Jieqing Tan (Hefei University of Technology), Min Hu (Hefei University of Technology)

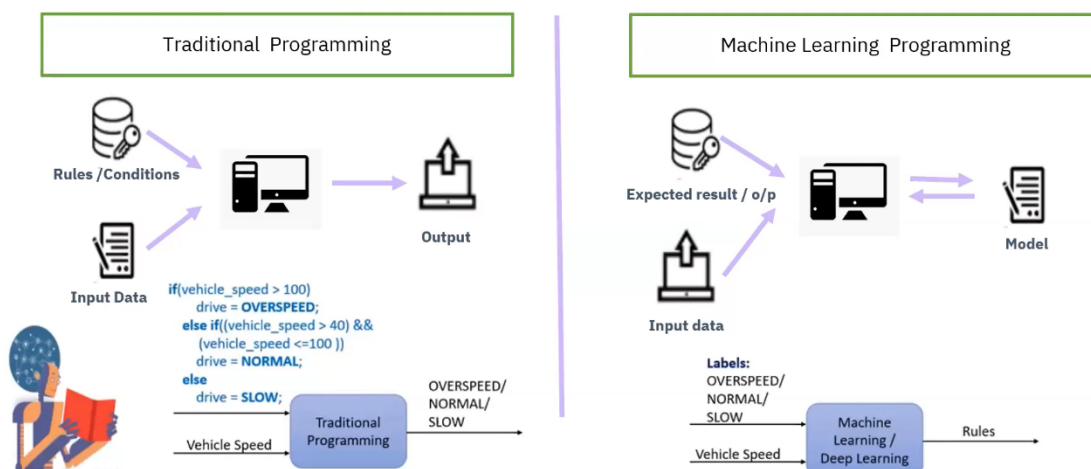
## REFERENCE -

[HTTPS://WWW.RESEARCHGATE.NET/PUBLICATION/354755659\\_A\\_NOVEL\\_HANDWRITTEN\\_DIGIT\\_CLASSIFICATION\\_SYSTEM\\_BASED\\_ON\\_CONVOLUTIONAL\\_NEURAL\\_NETWORK\\_APPROACH](https://www.researchgate.net/publication/354755659_A_NOVEL_HANDWRITTEN_DIGIT_CLASSIFICATION_SYSTEM_BASED_ON_CONVOLUTIONAL_NEURAL_NETWORK_APPROACH)

## 2.2 ATTENDED THE TECHNOLOGY TRAININGS AS PER THE TRAINING CALENDAR.

### AI - B2 - 2M4E (Evening Session) - Day 1:

#### How it Works?



The screenshot shows a Jupyter Notebook interface with the following content:

```
[28]: num2 = 10.10
      num3 = 10+10j

      print(type(num1))
      print(type(num2))
      print(type(num3))

      <class 'int'>
      <class 'float'>
      <class 'complex'>
```

Below the code, there are two expandable sections:

- 2. Sequence Type
- 1. String

The '1. String' section contains the following code:

```
[29]: str1 = "Welcome to AI"
```

The notebook status bar at the bottom indicates "0s completed at 8:40 PM".

## AI - B2 - 2M4E (Morning Session) – Day 2:

The screenshot shows a Jupyter Notebook interface with the following content:

```
[34]: list1 = [12,43,56]
      list1

      [12, 43, 56]
```

Below the code, there are two expandable sections:

- list1 = [12.12,43.54,56.87]
- list1

The 'list1 = [12.12,43.54,56.87]' section contains the following code:

```
[35]: list1 = [12.12,43.54,56.87]
      list1

      [12.12, 43.54, 56.87]
```

The 'list1' section contains the following code:

```
[36]: list1 = ['AI','ML','DL']
      list1

      ['AI', 'ML', 'DL']
```

The notebook status bar at the bottom indicates "0s completed at 9:46 AM".

AI-B2-2M4E(Morning Session)-Day-2

Recent - Google Drive

Batch 2 Python Basics.ipynb - Co

colab.research.google.com/drive/1HjTTY3Z1CvT76YHbZm\_DEmytHGO8rWUKo#scrollTo=9YFloaVLbv8w

GmailYouTubeMapsCompany LoginWEBM to MP4 Con...PBLChat

Batch 2 Python Basics.ipynb

CommentShareSettingsH

FileEditViewInsertRuntimeToolsHelpAll changes saved

+ Code+ Text

RAMDiskEditing

```
i=i+1
pass
print('Current letter : ',str1[i])
i+=1
```

{x}

Current letter : a
Current letter : n
Current letter : n
Current letter : a
Current letter : 
Current letter : u
Current letter : n
Current letter : i
Current letter : e
Current letter : n
Current letter : s
Current letter : i
Current letter : t
Current letter : y

```
a = 10
if a==11:
    p=1
```

[ ]

<>
[]
[]

0s completed at 11:44 AM