

NALAIYA THIRAN

WEEK 5 REPORT

Project Title: A Novel Method for Handwritten Digit Recognition System

Team ID: PNT2022TMID15720

GitHub ID: <https://github.com/IBM-EPBL/IBM-Project-24169-1659939062>

Mentor Name: Banupriya N

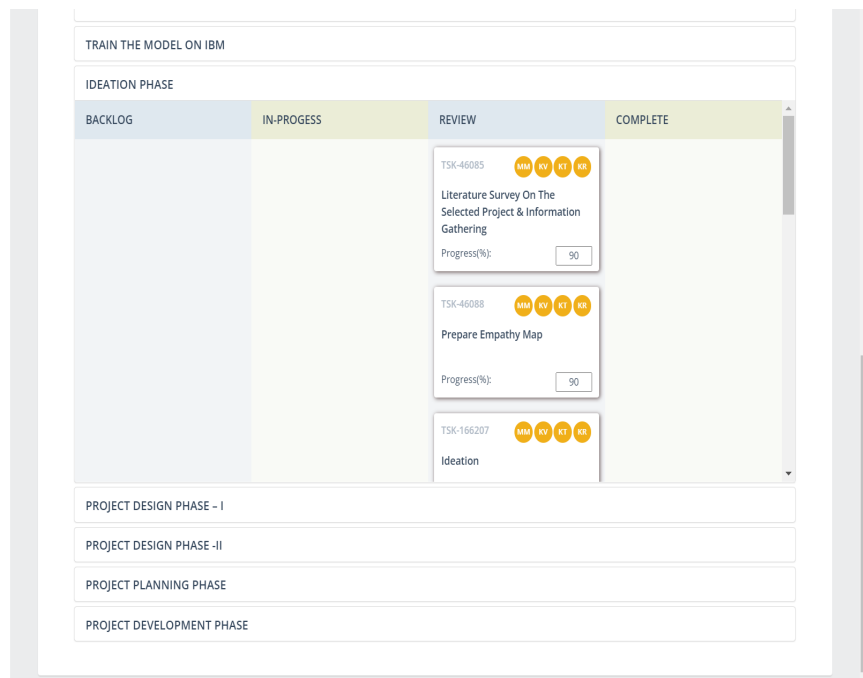
Team Members: Kasamsetty Rahul (Team Leader) – 111719104073

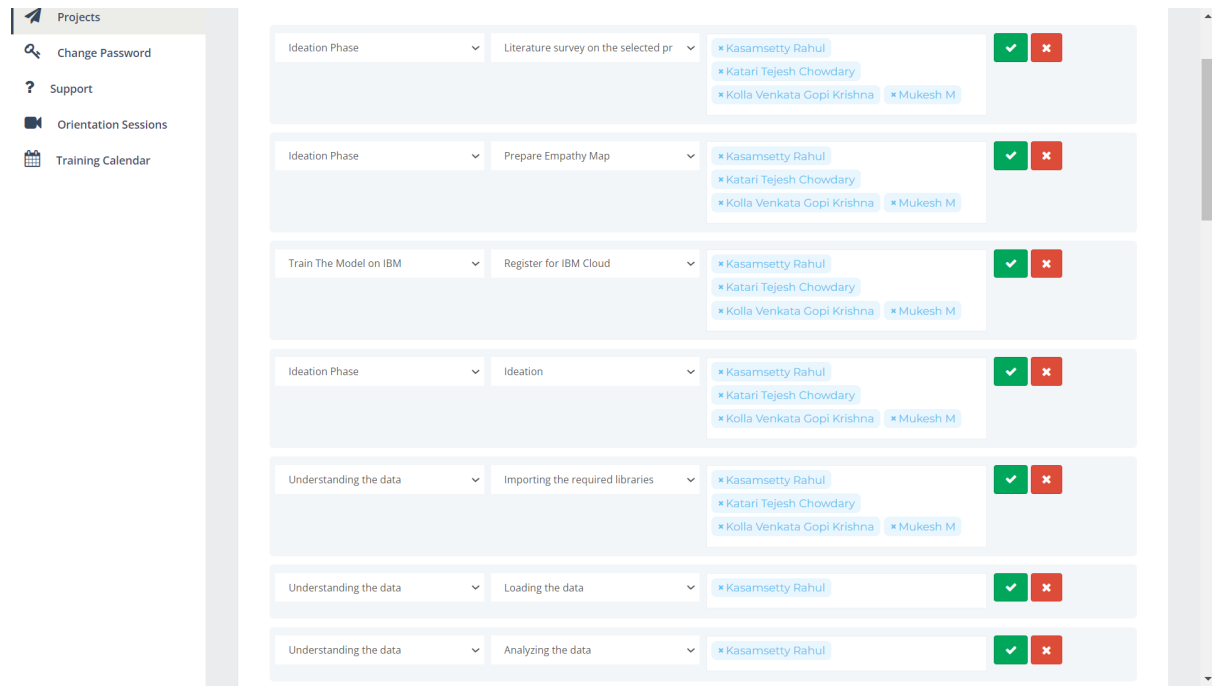
K V Gopi Krishna – 111719104077

Katari Tejesh Chowdary – 111719104074

Mukesh Manikandan – 111719104098

On September 22nd we had a session on How to view marks , reviews and completed status of our project in ibm account and learned only team leader can assign task to team member in IBM account.





- And learned different types of neural network to implement the program.

The screenshot shows a Jupyter Notebook interface with the following code and output:

```
[ ] df = pd.read_csv("Churn_Modelling.csv")
```

```
[ ] df
```

RowNumber	CustomerId	Surname	Creditscore	Geography	Gender	Age	Tenure	Balance	NumOfProducts	HasCrCard	IsActiveMember	EstimatedSalary	Exited
0	1	Hargrave	619	France	Female	42	2	0.00	1	1	1	101348.68	1
1	2	Hill	608	Spain	Female	41	1	83807.86	1	0	1	112542.58	0
2	3	Onio	502	France	Female	42	8	159660.80	3	1	0	113931.57	1
3	4	Boni	699	France	Female	39	1	0.00	2	0	0	93826.63	0
4	5	Mitchell	850	Spain	Female	43	2	125510.82	1	1	1	75084.10	0
...
9995	9996	Obijaku	771	France	Male	39	5	0.00	2	1	0	96270.64	0
9996	9997	Johnstone	516	France	Male	35	10	57369.61	1	1	1	101699.77	0
9997	9998	Ulu	709	France	Female	36	7	0.00	1	0	1	42085.58	1
9998	9999	Sabbatini	772	Germany	Male	42	3	73075.31	2	1	0	92888.52	1
9999	10000	Walker	792	France	Female	28	4	130142.79	1	1	0	38190.78	0

```
[ ] df.shape
```

```
(10000, 14)
```

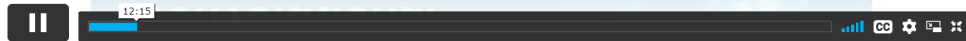
```
[ ] df.columns
```

```
Index(['RowNumber', 'CustomerId', 'Surname', 'Creditscore', 'Geography',
```

On September 24th we had a session Convontional Neural Network , types of images , CNN layers and case study Animal specific image classification using Convontional neural network.

Convolution Neural Network

Press **Esc** to exit full screen



1

Module -6.1 Introduction to CNN **1:03:45** ☆

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https://docs.google.com/presentation/d/17IOBghrOv84mB5oLm14Bgh689QmdQ/edit#slide=id.p28

Slide 28

Case Study:- Animal Species image Classification using convolution neural network

28

1:03:45

19/04 24-09-2022

Binary images

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