Meeting Minutes:

Date: July 5th, 2025
Time: 10:00 PM – 1:00 PM IST

Team Members:

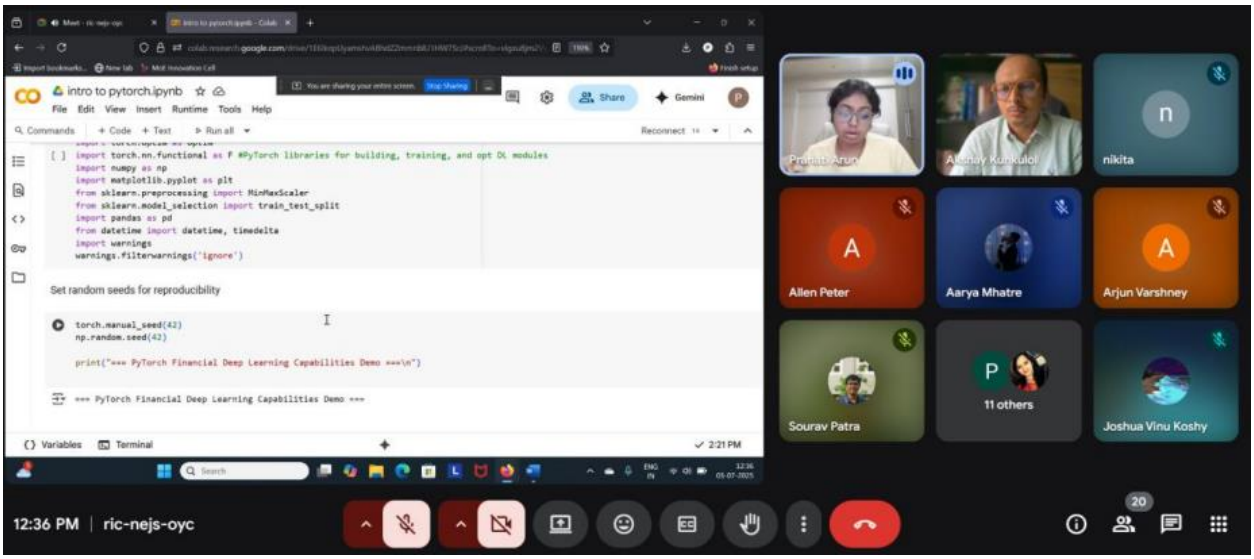
1. Bhumi Vedant
2. Harshal Shirole
3. Paras Kadam
4. Anuj Kadu

Agenda:
To collaboratively explore and discuss the following libraries:

1. **Pandas** – for data manipulation
2. **NumPy** – for numerical operations
3. **PyTorch** – for building ML/DL models
4. **TensorFlow** – for scalable deep learning
5. Understand real-world use cases
6. Clarify doubts and strengthen concepts
7. Plan hands-on practice & next learning steps

Members Present:

1. Mr. Akshay Kunkulol
2. Mr. Mahadev sir
3. Dr. Chhaya Pawar [Associate Professor - Comps Department]
4. Dr. Archana Shirke [Assistant Professor - IT Department]
5. Mrs Lakshmi Gadhikar [Assistant Professor -IT Department]
6. Mr. Rahul Jadhav [Assistant Professor-Comps Department]
7. Mrs Chetana Badgujar [Assistant Professor-Comps Department]
8. Mrs. Priyamvada Singh [Assistant Professor-Comps Department]
9. 16 selected students from Computer, IT, and EXTC departments



Meeting Proceedings:

1. NumPy (Presented by: Bhumi)

- Explored core concepts: arrays, broadcasting, vectorized operations.
- Clarified difference between Python lists and NumPy arrays in speed & memory. Understood its foundation in almost every data science workflow .

2. Pandas (Presented by: Harshal)

- Discussed DataFrames, series, filtering, grouping, and data cleaning.
- Emphasized its use in preprocessing social media or CRM datasets.
- Understood its role as a bridge between raw data and machine learning.

3. PyTorch (Presented by: Paras)

- Briefed about Training Pipeline, building neural network layers using `torch.nn`.
- Discussed PyTorch's dynamic graph approach and flexibility for research.
- Use case: Custom model building implementing ANN,CNN, over a given dataset.

4. TensorFlow (Presented by: Anuj)

- Built and fine-tuned a neural network from scratch on a loan defaulter dataset without using libraries.

- Used Keras with TensorFlow to efficiently build and train a scalable production-level model.
- Chose TensorFlow for its scalability, deployment versatility, and production-ready ecosystem.

Next Steps: (Feedback from Mentor)

Sir gave a set of questions to follow up for every group and gave a general feedback to try out all tools mentioned as a part of study.

Conclusion:

The meeting ended with everyone having a clear understanding of where they stand with Pandas, NumPy, and PyTorch, tensorfvloe.

The team is now ready to move toward **hands-on model development** using PyTorch after cleaning and preparing data using Pandas and NumPy.