## **Meeting Minutes**

**Date:** 05 July 2025

Time: 10:00 AM - 1:00 AM IST

#### **Team Members:**

- 1. Joshua Koshy
- 2. Poorva Raut
- 3. Sujit Lendave
- 4. Aakanksh Mishra

## Agenda:

- Presentation on NumPy, Pandas, TensorFlow, and PyTorch
- Showing live demonstration on libraries mentioned above and show a detailed PoC

#### **Members Present:**

- 1. Mr. Akshay Kunkulol
- 2. Mr. Mahadev sir
- 3. Dr. Chhaya Pawar [Associate Professor Comps Department]
- 4. Ms. Priyamvada [Assistant Professor Comps Department]
- 5. Ms. Lakshmi Gadikar[Assistant Professor -IT Department]
- 6. Mr. Rahul [Assistant Professor Comps Department]
- 7. Ms. Chetana [Assistant Professor Comps Department]
- 8. 16 selected students from Computer, IT, and EXTC departments

# **Meeting Proceedings:**

# **Technology Presentations**

- Aakanksh Mishra began with NumPy and Pandas, explaining their roles in data loading, cleaning, transformation, and correlation analysis.
- **Joshua Koshy** presented **Scikit-learn**, walking through preprocessing steps, model selection, evaluation metrics, and showed 6 different ML algorithms to test it.
- **Poorva Raut** presented **TensorFlow**, outlining its architecture, usage for deep learning models and how to choose between optimizers like **SGD** and **Adam**.

• **Sujit Lendave** explained **PyTorch**, comparing it to TensorFlow in terms of dynamic computation, ease of debugging, and flexibility.

## **Feedback from Mentor**

#### General:

- Don't read slides/notebooks; keep it natural.
- Speak confidently; avoid filler/non-English words.
- Use assertive language ("I'm presenting..." not "I got a topic...").
- Practice delivery (e.g., mirror rehearsal); resources will be shared.
- Emphasize product thinking; aim for vertical feature slices and aim for MVP.

### **BE1:**

- Clarify how correlation helps in models; contrast with Beta.
- Justify data preprocessing steps.
- Explore Keras model options; explain optimizer choices (e.g., SGD).
- Explain logic behind selecting number of layers.

#### **BE2:**

- Explain why NaN (e.g., in Avg ROI) appears and how to handle it.
- Justify train/test split ratio (e.g., 80/20).
- Compare DB types: Relational vs Graph vs Vector; when to use what.
- Justify framework choice: PyTorch vs TensorFlow.

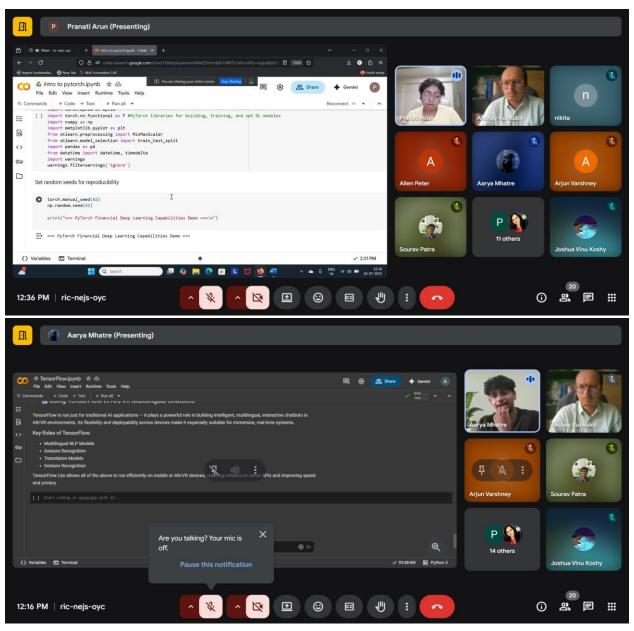
#### TE1:

- Define standard deviation and its business relevance.
- Median imputation—when it works and alternatives; justify based on use case.

### TE2:

- Explain negative Sharpe ratio meaning.
- Justify epoch count selection.
- Improve Bull/Bear classification logic; consider better thresholds/timescales.

## **Screenshot:**



# **Next Steps:**

Upcoming demos will cover Lovable Cursor, GitHub Copilot, and Replit.

Focus will be on how these tools assist in faster prototyping, live collaboration, and Alpowered code suggestions.

## Conclusion:

The meeting concluded at 1:00 PM IST with clear directions.