

Vivekanand Education Society's Institute of Technology

Department of Computer Engineering

TIFR - VESIT Projects

Minutes of Meeting

Venue: Online mode

Date: 23rd November, 2023

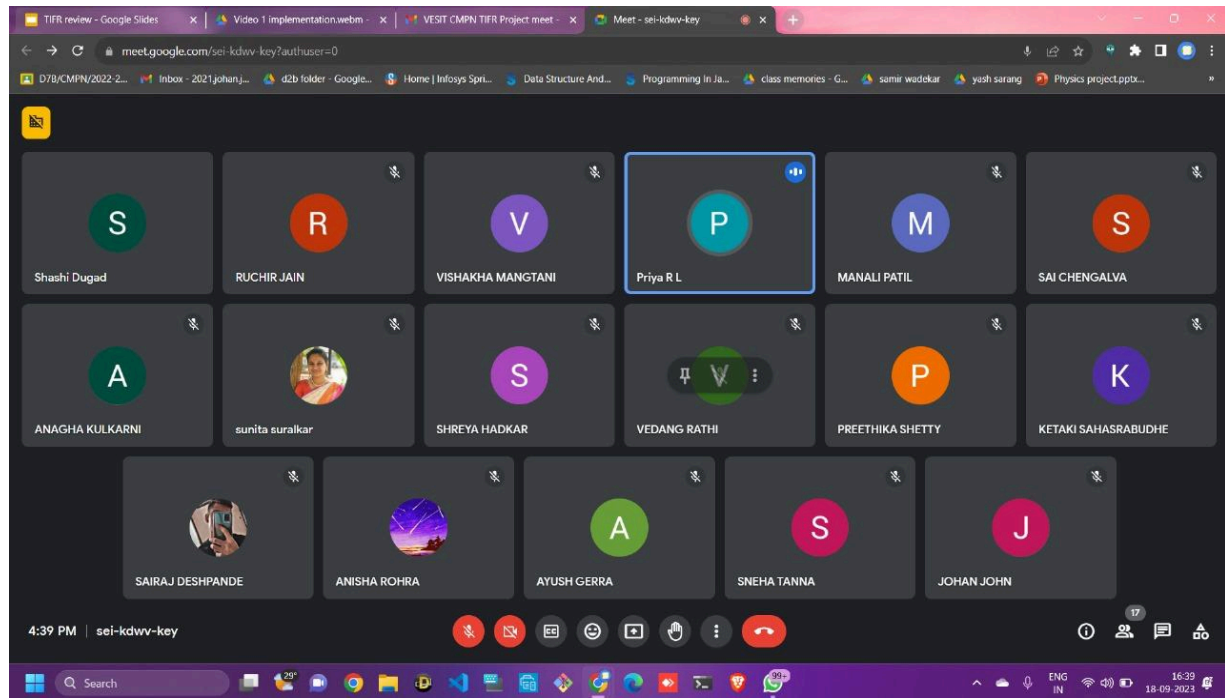
Time : 10.30 AM to 12.30 PM

Participants Attendance List:

- Dr. Shashi Dugad - Department of High Energy Physics, TIFR
- Mrs. Priya R.L - Assistant Professor, Computer Engineering, VESIT
- Mrs. Sunita Suralkar - Assistant Professor, Computer Engineering, VESIT
- Mr. Richard Joseph - Assistant Professor, Computer Engineering, VESIT
- Students, Computer Engineering, VESIT

Agenda:

- To present the work done since the previous meeting and share the progress.
- Plan further work to be done based on the suggestions given.



Points Discussed:

Applications of CUDA for data processing:

1. Tabular difference of CPU and GPU's speed of execution for matrix multiplication program
2. Computation of adjacency matrix using GNN

Wireless Data Extraction :

1. Study about USB and Micro USB pin configuration.
2. Reduce the frames per second (fps) to 1 frame per second.
3. Connect the cameras to the hotspot.

CMS Detector Quality Assurance using ML methods:

1. Understanding Hough transformations
2. Detecting the holes and using the Hexagonal board's center to retrieve the center of the holes – Need to figure out how

3. Getting Scanner API from Epson and studying the scanning software and API