

# **K.S. Institute of Technology Bangalore**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**INDUSTRIAL VISIT REPORT**

**By**

**Students of 4<sup>th</sup> Semester 'A' sec**

**Department of Computer Science & Engineering**

**K.S. Institute of Technology**

**Venue: IISc, Bangalore**

**Event at Venue: Open Day**

**Date: 29<sup>th</sup> February 2020**

**Day: Saturday**

### **Objective**

The Main objective of the Industrial Visit is to give an exposure to the students studying in CSE in learning new technologies. This visit will give the students to carry out projects either in CSE domain or in interdisciplinary domains. The students participating in the event or in coding event at IISc will boost their technical skills which will help them during placements.

### **Highlights**

The students attending the event had seen the following in the exhibition:

1. Game of codes
2. Bet to code
3. Hackathon
4. Sessions on next generation networks – Open, Intent based and programmable
5. Session on power efficient method for tackling machine learning workloads with next generation with AI processors.
6. Quiz for college students.
7. Supercomputer Education and Research Centre(SERC).
8. Sessions on Internet of Things and Drone Technology.

### **Purpose of the Visit**

The visit was for the students of 4<sup>th</sup>, 6<sup>th</sup> and 8<sup>th</sup> semester of CSE Department to know the newer technologies.

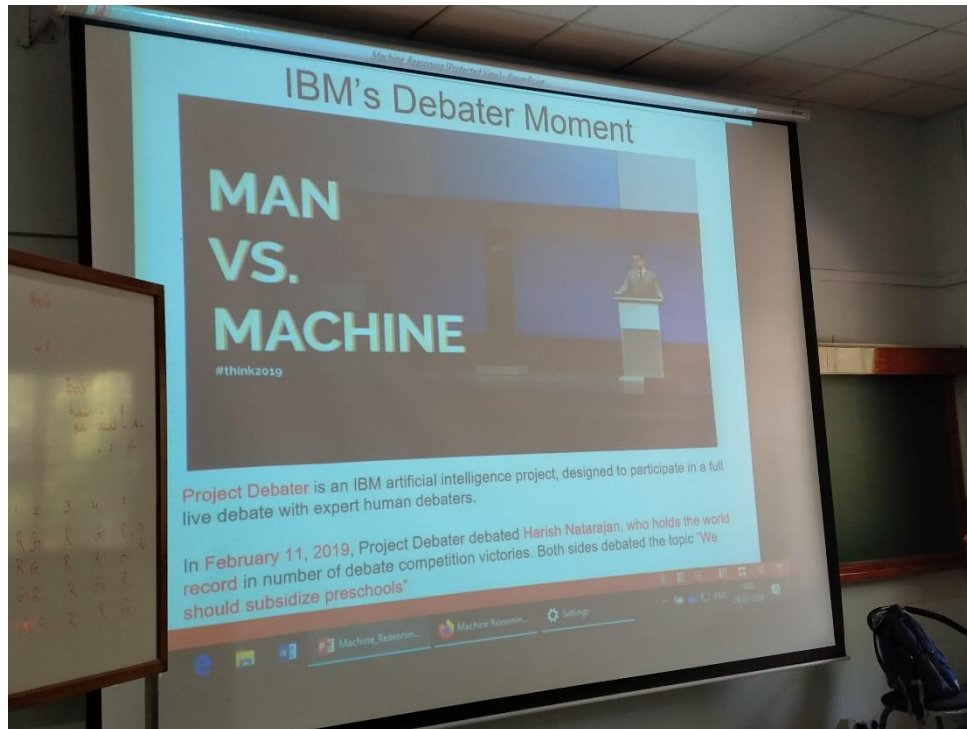
## Computer Science and Related Events



Source: Outside CSA Block



Events such as **Game of codes** and **Bet to Code** gave us real life problem statements knowledge and challenges faced in Industry. We learned a lot in a Demo on **Artificial intelligence and Machine Learning**, It gave us an idea on how AI processes and Decisions are made by a AI model.



**Source: Demo on AI and Machine Learning**

### **Quiz**

A quiz was conducted for the college students with 25 questions given should be solved within 45 minutes from the time we started. We participated in this event with 2 members in a team.

### **Supercomputer Education and Research Centre(SERC)**

We also visited SERC to see a **supercomputer** where it is located inside IISc. The supercomputer which we saw overthere was CRAY XC40. Along with that we also saw some of the peripherals displayed there which were used in early computing stages.



**Source: SERC block**



This is **CRAY XC40** which is found here.

The Cray XC40 supercomputer is a groundbreaking architecture upgradable to 100 petaflops per system and delivering:

- Sustained and scalable application performance
- Tight HPC optimization and integration
- Production supercomputing
- Investment protection – upgradability by design
- User productivity

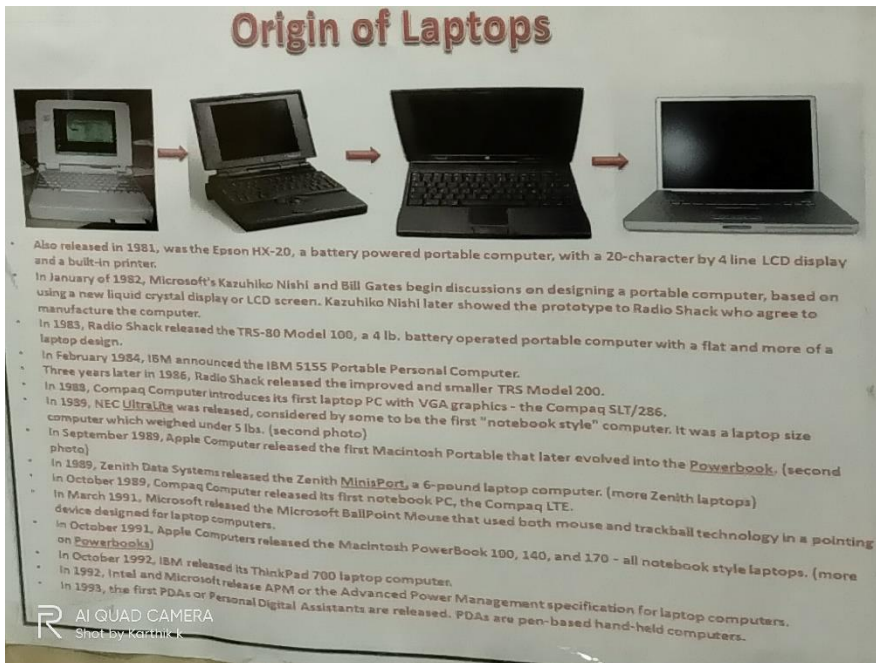
**Some more pictures from SERC**



**Source: Hard disk**



Source: Power supply modes



Source: Brief note on inception of laptops



Source: Drives and punch cards



Source: Secondary storage drives





**Source: NFS file server**



**Source: Fermi cluster**



## **Acknowledgment**

We the students thoroughly enjoyed and learnt new things at IISc. It was useful both for the Academic as well as nonacademic purposes. This event would not have possible without the support of our **Management, CEO and the Principal**. I am very thankful to our Head of the Department (Computer Science and Engineering) **Dr. Rekha. B. Venkatapur**, without her continuous guidance, motivation and moral support this visit would not have been possible. We would like to thank **Mr. Aditya Pai H** whose support made the visit to IISc a greatest success. We also thank **Mr. Raghavendrachar S** who supported and helped us during the industrial visit.

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**Head of the Department - CSE**