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GHARDA INSTITUTE OF TECHNOLOGY
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Department of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)

INDUSTRIAL VISIT REPORT

Department of CSE-AIML
Gharda Institute of Technology
Visit to ISRO and KSRSAC, Bangalore
Visit Date: September 9-13, 2025
Report Submission Date: September 26, 2025

Introduction-

As part of the academic curriculum, an industrial visit was organized for the Third-Year (TE) and Fourth-Year (BE) students of the CSE-AIML department to the Indian Space Research Organization (ISRO) and the Karnataka State Remote Sensing Applications Centre (KSRSAC) in Bangalore, Karnataka. The visit, accompanied by 3 faculty members and 1 guide from Eduventura, aimed to provide students with practical exposure to space research, satellite technology, and geospatial applications. ISRO, India's premier space agency, is renowned worldwide for its achievements in satellite launches and space missions, while KSRSAC functions as the state's nodal agency for applying remote sensing and GIS in governance and development. Together, these visits helped bridge the gap between theory and practice, offering valuable insights into how space technology and geospatial sciences contribute to solving real-world challenges.

Objectives of the Visit-

- To gain exposure to the functioning of ISRO and KSRSAC and understand their role in advancing space research and geospatial applications.

- To familiarize students with the applications of satellite technology, remote sensing, GIS mapping, and data analytics in real-world projects.

- To understand how organizations like ISRO contribute to national space missions and how KSRSAC applies space-based data for state-level development.

- To learn how geospatial and satellite technologies support natural resource management, urban planning, smart city projects, and disaster management.

- To inspire students from CSE (AI & ML) to explore opportunities in the fields of space technology, geospatial sciences, artificial intelligence, and data-driven research.

Visit to ISRO-
Date-September 11, 2025
Location-Banglore,Karnataka

During our visit, we learned that ISRO (Indian Space Research Organisation) is India's premier space agency, established in 1969 under the Department of Space. ISRO is globally known for its cost-effective space missions such as Chandrayaan (Moon Mission), Mangalyaan (Mars Orbiter Mission), and its advanced satellite launch capabilities through PSLV and GSLV rockets. ISRO's vision is to harness space technology for national development while pursuing planetary exploration and scientific research.
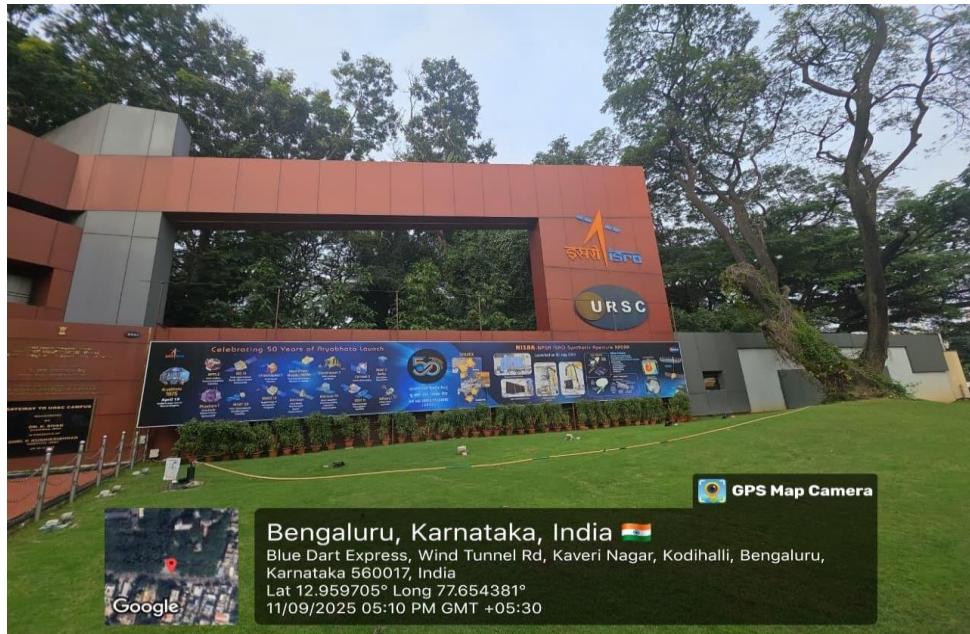
Activities During the Visit – ISRO

- Orientation session on ISRO's history, achievements, and future missions.

- Explanation of satellite launch vehicles such as PSLV and GSLV.

- Overview of India's space applications in communication, navigation, weather forecasting, and disaster management.

- Visit to exhibition models of rockets, satellites, and payloads.

- Interaction with ISRO officials, who explained career opportunities and research contributions.

Experiences – ISRO

- We felt inspired by ISRO's achievements in space missions and national development.

- Seeing models of rockets and satellites gave us a sense of pride and excitement.

- Learning about satellite applications in everyday life made us realize the importance of space technology.

- The sessions motivated us to think about how AI and ML can contribute to future space research.

- Overall, the ISRO visit was a source of inspiration and national pride for all of us.
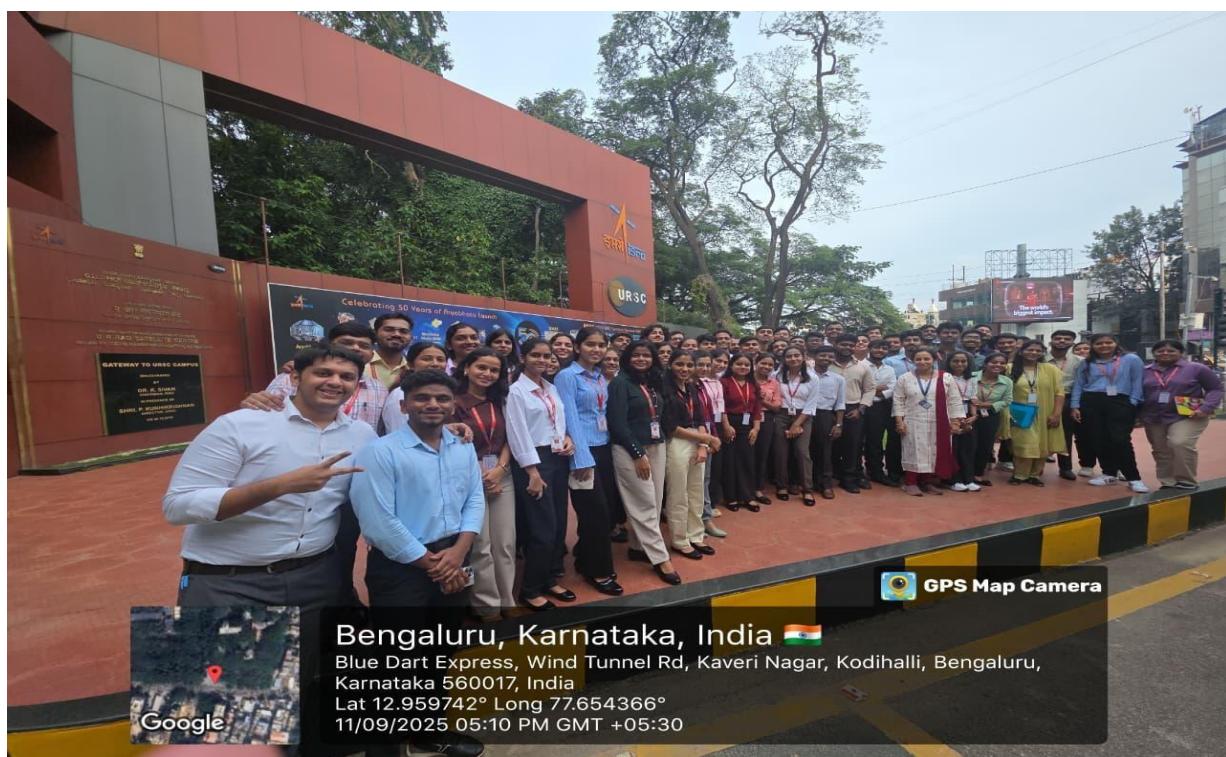
Visit to KSRSAC-
Date-September 12, 2025
Location-Banglore,Karnataka

During the visit, we learned that KSRSAC was established in 1985 and works under the Government of Karnataka as the nodal agency for remote sensing and GIS. The centre has advanced laboratories where satellite data is processed into maps and reports that support government decision-making. We understood that KSRSAC plays a very important role in areas such as natural resource management, environmental monitoring, and infrastructure planning.

Activities During the Visit-KSRSAC

- Orientation session conducted by officials, explaining the vision, background, and functions of KSRSAC.

- Demonstration and explanation of how satellite images are received and processed into useful maps and reports for planning.

- Lecture on GIS applications, describing how different data layers are analyzed and used in real-world projects.

- Interaction session with experts, where students asked questions and clarified their doubts.

- Informative discussions that helped students understand the concepts and applications of remote sensing and GIS.

Experiences-KSRSAC

● We gained a clear understanding of how KSRSAC functions and contributes to state development.

● It was exciting to see real-time satellite data being processed into meaningful information.

● The GIS demonstration helped us connect theoretical knowledge with real-world applications.

● Interaction with experts boosted our confidence and clarified many doubts.
● Overall, the visit inspired us to explore geospatial technology further and appreciate its societal impact.
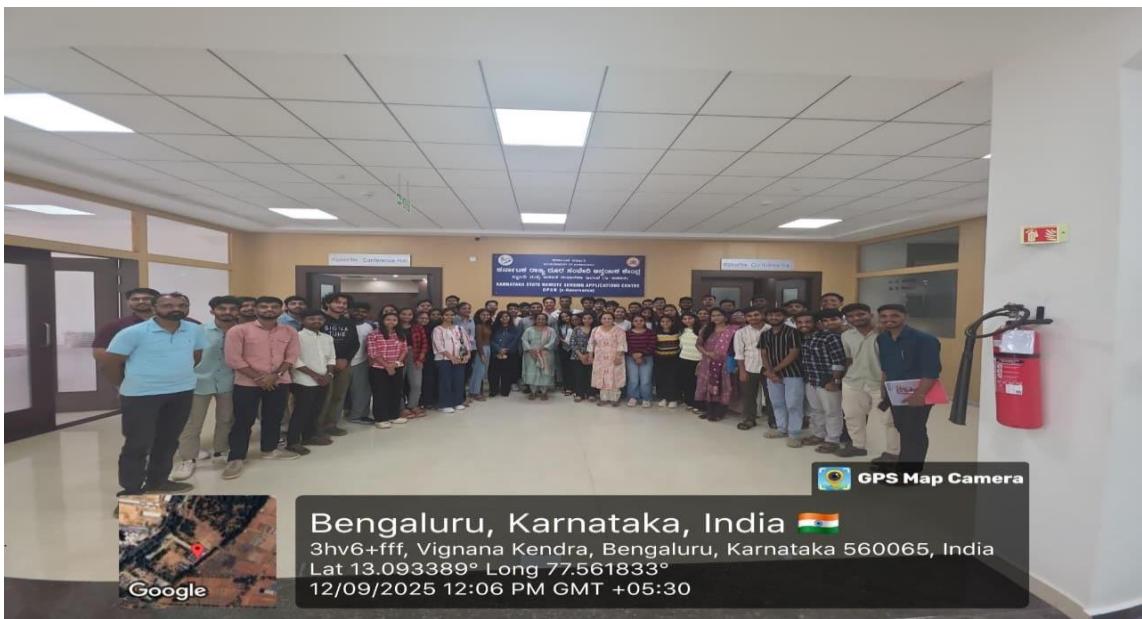
Sightseeing-

1) **Adiyogi Statue Bangalore**

2) High court Bangalore

3) Cubbon park

4) Vidhan Soudha Bangalore

5) Bangalore Aquarium at Cubbon Park

Conclusion-

Overall, our industrial visit to ISRO and KSRSAC was both memorable and enlightening. At ISRO, we were inspired by India's achievements in space research, satellite launches, and planetary exploration, which gave us pride and motivation to contribute to future technological advancements. At KSRSAC, we understood how space-based data and geospatial tools are applied in state-level development, urban planning, and disaster management. Together, these visits helped us connect our CSE (AI & ML) academic knowledge with practical applications in space technology and geospatial sciences, motivating us to explore new ideas for our projects, research, and careers.

Acknowledgement-

We sincerely thank our college management, Head of Department, and faculty members for organizing the industrial visit to ISRO and KSRSAC, Bangalore. We are grateful to the officials of both organizations for their valuable guidance and informative sessions, which enhanced our knowledge of space research and geospatial applications. We also thank Eduventura and our guide for their support in coordinating the visit successfully.

Prepared by:
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R.D.Singh
Rajiv Singh
Student Co-ordinator

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H.O.D

Sr.No	Name of the student	Branch	Year
1	Atharva Ghosalkar	AIML	TE
2	Muktai Kadam	AIML	TE
3	Rajiv Singh	AIML	TE
4	Shravani Chavan	AIML	TE
5	Shifan Nagarji	AIML	BE
6	Suyash Shivalkar	AIML	TE
7	Shreepati Mishra	AIML	BE
8	Durvank Ramesh Ghadshi	AIML	TE
9	Kadu Raj Manohar	AIML	BE
10	Deorukhakar Aditi Sanjay	AIML	BE
11	Aniruddha Jotiram Jadhav	AIML	TE
12	Saniya Chavan	AIML	TE
13	Madhura Mahadik	AIML	TE
14	Ayush Bhosale	AIML	TE
15	Ayush Shinde	AIML	TE
16	Sagar Kudkar	AIML	TE
17	Yahya Rawal	AIML	TE
18	Tej Kolwankar	AIML	TE
19	Piyush Kadam	AIML	TE
20	Altamash Karbari	AIML	TE
21	Prathamesh Pabe	AIML	TE
22	Asim Khan	AIML	TE
23	Tanvi Pramod Mahadik	AIML	BE
24	Pandey Nikita Suryaprakash	AIML	BE
25	Nadaf Alvira Ajamir	AIML	BE
26	Palshetkar Siddhi	AIML	BE
27	Yash Gujar	AIML	BE
28	Soham Bendarkar	AIML	TE
29	Gauri Sonawane	AIML	BE
30	Swaraj Jadhav	AIML	BE
31	Atharv Bendkhale	AIML	BE
32	Nishant Thakare	AIML	TE
33	Omkar Mohite	AIML	TE
34	Adina Hodekar	AIML	TE
35	Durgesh Padval	AIML	TE
36	Rameez Kurawale	AIML	TE

37	Atharv Goythale	AIML	BE
38	Riddhi Joshi	AIML	TE
39	Harsh Devalekar	AIML	TE
40	Divya Nitin Pawar	AIML	BE
41	Sanika Rajesh Kadam	AIML	TE
42	Vivek Warang	AIML	TE
43	Bhoomi kadam	AIML	TE
44	Zaid chougle	AIML	TE
45	Janhavi Kadam	AIML	TE
46	Vaishnavi Chavan	AIML	TE
47	Gauri Sushil Kate	AIML	BE
48	Srushti Dinesh Redij	AIML	BE
49	Vinit Shinde	AIML	TE
50	Sujal Patil	AIML	BE
51	Suyash Sakpal	AIML	BE
52	Vikas Manhinde	AIML	TE
53	Sakshi Tarkar	AIML	TE
54	Shravani Jagtap	AIML	TE
55	Alisha Firoj Sayyad	AIML	BE
56	Atharva Vikram Bhosale	AIML	TE
57	Soham Sutar	AIML	TE
58	B Blessy Jabeena	AIML	TE

Total Girls = 23
Total Boys = 35
Total Staff = 3