DON BOSCO INSTITUTE OF TECHNOLOGY

Kumbalgodu, Mysuru Road, Bengaluru-74

A Report on

"Project Exhibition and Poster Presentation"

Organised by

Samsung Innovation Campus

&

Department of Computer Science and Engineering

Under SIC-DBIT

Co-ordinated by

Dr. K B Shivakumar

Prof & Head,CSE Dept.

Dr. Venugeetha Y

Professor, CSE Dept.

Held On

Date: 08th November 2023

2023 - 2024

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A Report on **"Project Exhibition and Poster Presentation"**

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and
Department of Computer Science and Engineering
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Coordinated by **Dr. K B ShivaKumar,** HOD, Dept. Of CSE
Dr. Venugeetha Y, Professor, Dept. Of CSE

Event held on: **8th November 2023**

Resource Person: **Sri Sundar Srinivasan**
Engineering Manager, Samsung R & D-Bangalore

Academic Year: **2023-2024**

Signature of the SIC-Coordinator with date: 15/11/23

Signature of the HOD with date: 15/11/23

Professor and Head
Dept. of Computer Science & Engineering
Don Bosco Institute of Technology
Kumbalgodu, Bangalore - 74

Signature of the IQAC with date: 15/11/2023

Director - IQAC
Don Bosco Institute of Technology
Mysore Road, Kumbalagodu
Bengaluru-560 074

Signature of the Principal with date:

PRINCIPAL
Don Bosco Institute of Technology
Kumbalagodu, Mysore Road,
Bangalore - 560 074.

2. INTRODUCTION

SAMSUNG | Don Bosco Institute of Technology

Collaboration

Samsung Innovation Campus

Samsung Innovation Campus (SIC) is a global initiative by Samsung aimed at providing education and training in emerging technologies. The primary focus of Samsung Innovation Campus is to bridge the gap between industry demands for skilled professionals in areas such as artificial intelligence, Internet of Things (IoT), data science, and other cutting-edge technologies. It serves as a platform to nurture talent and equip individuals with the skills needed for the Fourth Industrial Revolution.

Samsung Innovation Campus offers a variety of courses and programs designed to cater to different skill levels, from beginners to advanced learners. These courses cover a range of topics related to technology and innovation. Common areas of focus include:

Coding and Programming (C & P): Courses in coding and programming are often at the core of Samsung Innovation Campus offerings. They may cover languages such as Python, Java, C++, and more. These courses aim to equip learners with the skills needed to develop software, applications, and other digital solutions.

Artificial Intelligence (AI): Given Samsung's interest in AI and machine learning, courses in these fields are likely to be a significant part of the curriculum. Topics may include machine learning algorithms, neural networks, natural language processing, and computer vision.

Internet of Things (IoT): As IoT becomes increasingly important, SIC may offer courses in IoT development, sensor technologies, and the integration of connected devices.

3. Objectives and Learning Outcomes

Samsung Innovation Campus aims to empower a generation of problem-solvers by equipping them with future-proof skills and a practical understanding of the technologies that will shape their future and enrich the sustainable growth of the world.

Objectives of AI course:

1. Empower students with advanced technologies like Artificial Intelligence, IoT, and Big Data.
2. Prepare students for roles in product-based companies with industry-aligned skills.
3. Bridge the gap between academic learning and industry demands, ensuring seamless integration.
4. Collaborate with educational institutions, government bodies, and industry partners to strengthen the overall education ecosystem.
5. SIC aims to foster a culture of innovation by nurturing talent and providing resources for individuals to explore and develop creative solutions.

4. Artificial Intelligence Course

4.1 Introduction

Samsung Innovation Campus is offering a course entitled Artificial Intelligence Course. This course will help students gain a grasp of data science tools and applications, mathematical algorithms, AI modelling, and machine learning tools, and learn how to use AI to do real-world problem solving. Students will build practical experience in AI theory, design, and implementation, communicate results, and receive an industry recognized Samsung AI course certificate. Students will also have opportunities to meet Samsung employees, industry leaders and field experts.

Objectives of AI course:

This AI course is intended for students to learn the essential foundations of AI and gain the fundamental data science skills through hands-on exercises.

1. Understand the foundational math behind data science and machine learning: linear algebra, probability and statistics
2. Be able to do data pre-processing with the Python libraries (NumPy and Pandas) for the execution of optimal machine learning models and data visualization.
3. Explore supervised and unsupervised learning and be able to apply the most suitable machine learning algorithm.
4. Learn to process textual data to derive high quality information from text and apply new insights to real-world business (NLP).
5. Build and train deep neural networks, use the deep learning libraries such as TensorFlow and Keras to gain proficiency, as well as handle various deep learning techniques.

There are nine meticulously crafted chapters, students embark on a journey from mastering AI basics to exploring advanced concepts such as data science, machine learning, natural language processing, neural network, deep learning etc. Aspiring programmers will also engage in hands-on sessions preparing them for effective data analysis and computer visualization. Students can have immersive learning experience, where each chapter unfolds a new layer of programming expertise, empowering students to excel in the dynamic world of artificial intelligence at Samsung Innovation Campus.

Course Structure:

Chapter 1: Introduction to Artificial Intelligence

Chapter 2: Math for Data Science

Chapter 3: NumPy Arrays for Optimized Numerical Computation & Pandas for Exploratory Data Analysis.

Chapter 4: Probability and Statistics

Chapter 5: Machine Learning – Supervised Learning

Chapter 6: Machine Learning – Unsupervised Learning

Chapter 7: Natural Language Processing and Language Models for Text Mining

Chapter 8: Neural Network and Deep Learning

Chapter 9: Various Deep Learning Techniques for Video and Language Intelligence

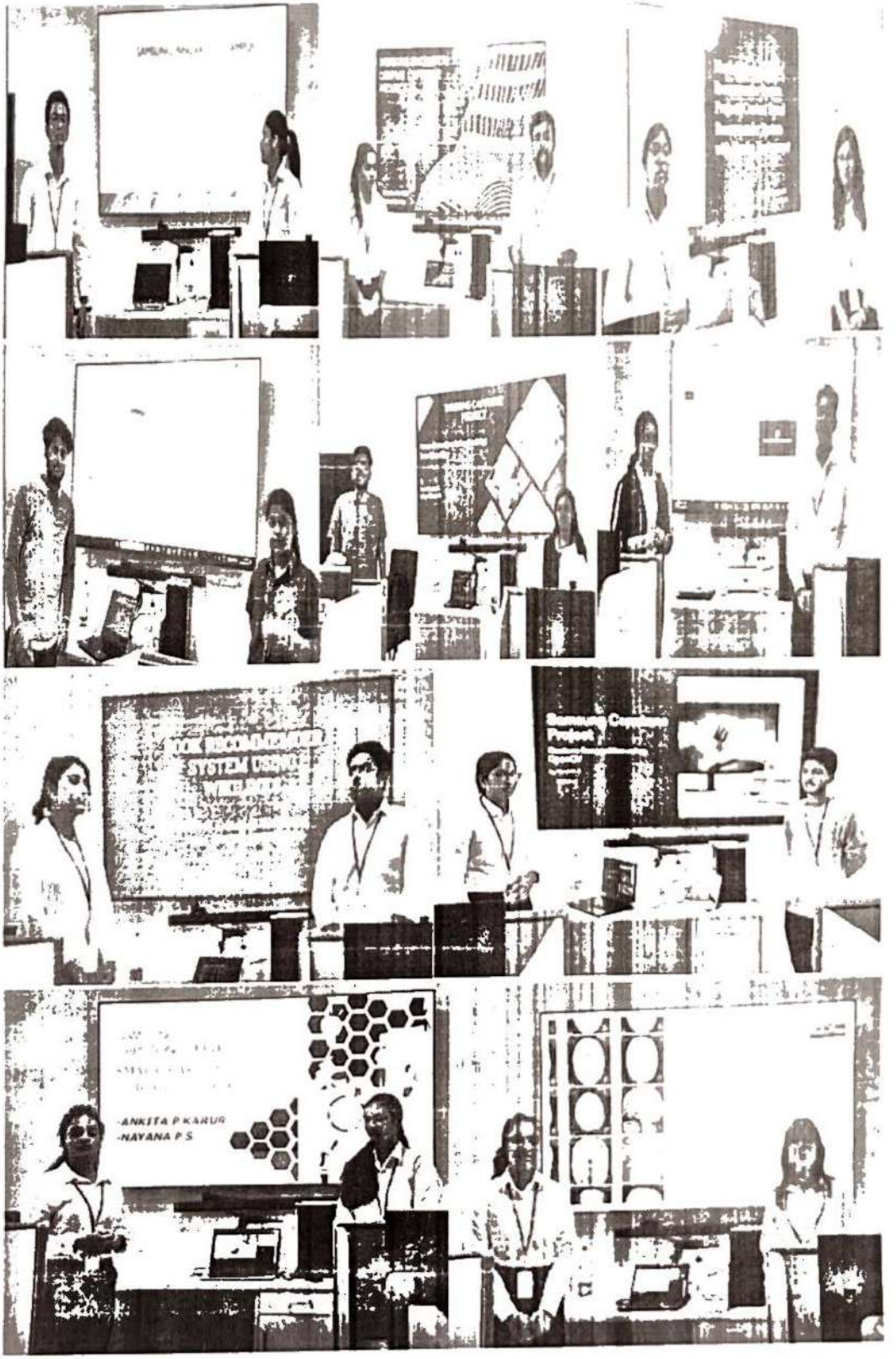
4.2 Trainer's Details

Prasad Krishna Murthy

Entrepreneur & Freelance Data Science, Machine Learning & Artificial Intelligence trainer with more than 20 years' experience in managing enterprise, business development and operations, data science & artificial intelligence training services.

Skilled in Data Science, Machine Learning, Deep Learning in Python, R program. Tableau, PowerBI. SPSS, SAP DS | Entrepreneur in BI Software Sales & Training | Business Consultant for IIHT Member FKCCI.

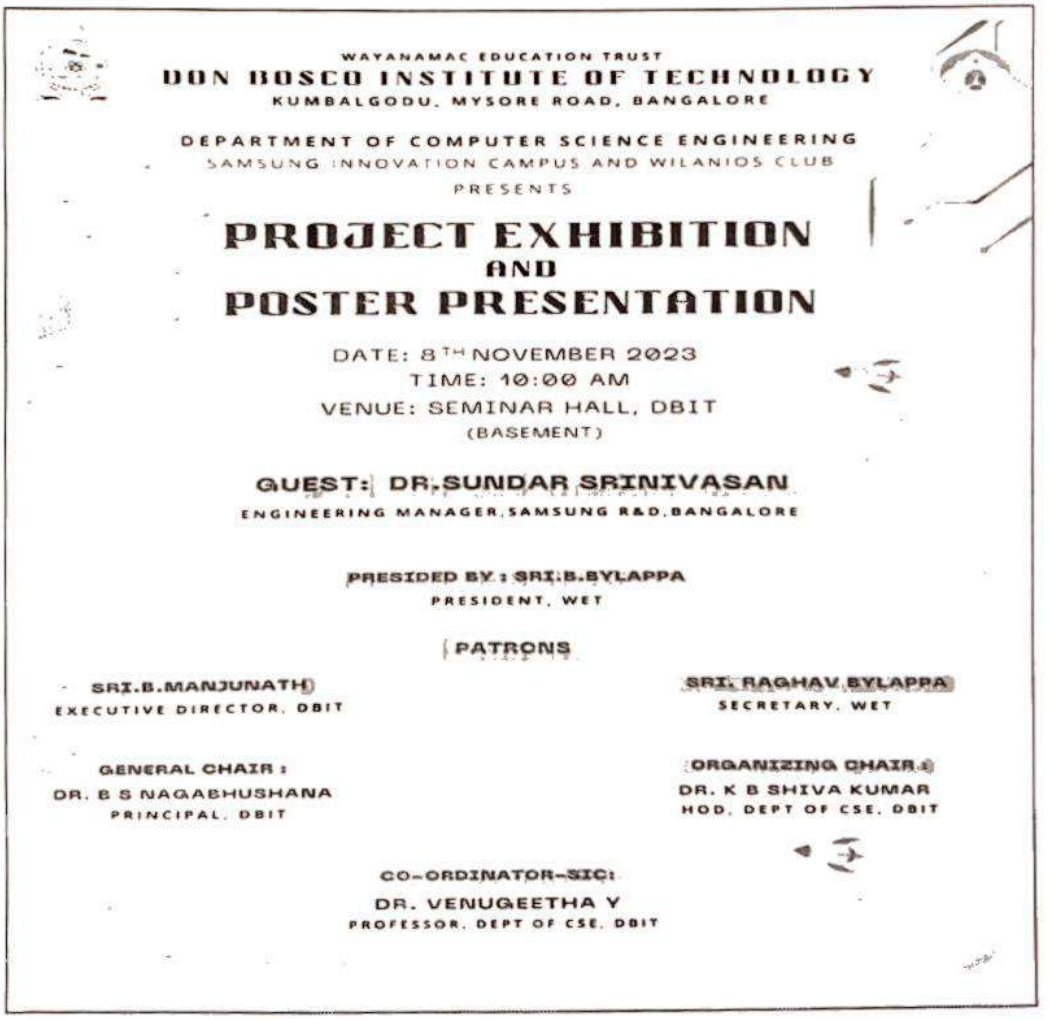
4.3 Capstone Project Presentation



5. Project Exhibition and Poster Presentation

As the coding and programming course reaches its culmination, students have passionately devoted their time and skills to conceive and develop a diverse array of projects. A total of 10 distinct projects have emerged, each a testament to the creativity, innovation, and technical proficiency cultivated throughout the course. In anticipation of showcasing their achievements, students will present their projects through carefully crafted posters at Project Exhibition. These posters encapsulate the essence of their work, offering a visual and informative journey into the intricacies of each project.

The enclosed invitation, meticulously crafted for Project Exhibition, has been disseminated across the college to ensure that every member of the academic community could witness the culmination of student's hard work and innovation.



WAYANAMAC EDUCATION TRUST

DON BOSCO INSTITUTE OF TECHNOLOGY

KUMBALGODU, MYSORE ROAD, BANGALORE

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

SAMSUNG INNOVATION CAMPUS AND WILANIOS CLUB

PRESENTS

PROJECT EXHIBITION

AND

POSTER PRESENTATION

DATE: 8TH NOVEMBER 2023

TIME: 10:00 AM

VENUE: SEMINAR HALL, DBIT

(BASEMENT)

GUEST: DR.SUNDAR SRINIVASAN

ENGINEERING MANAGER,SAMSUNG R&D,BANGALORE

PRESIDED BY : SRI.B.BYLAPPA

PRESIDENT, WET

PATRONS

SRI.B.MANJUNATH

EXECUTIVE DIRECTOR, DBIT

SRI. RAGHAV BYLAPPA

SECRETARY, WET

GENERAL CHAIR :

DR. B S NAGABHUSHANA

PRINCIPAL, DBIT

ORGANIZING CHAIR :

DR. K B SHIVA KUMAR

HOD, DEPT OF CSE, DBIT

CO-ORDINATOR-SIC:

DR. VENUGEETHA Y

PROFESSOR, DEPT OF CSE, DBIT

Invitation for the Project Exhibition and Poster Presentation

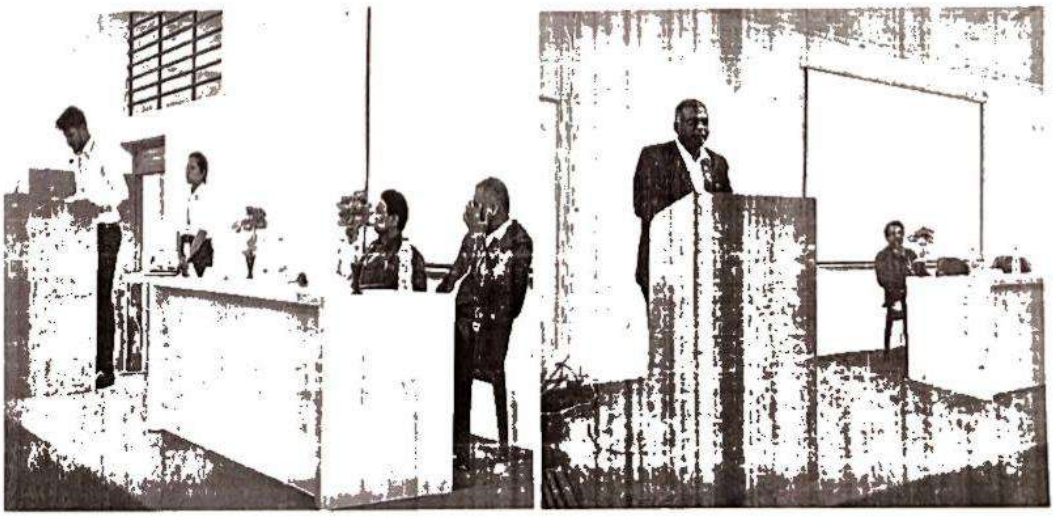
5.1 Guest Details

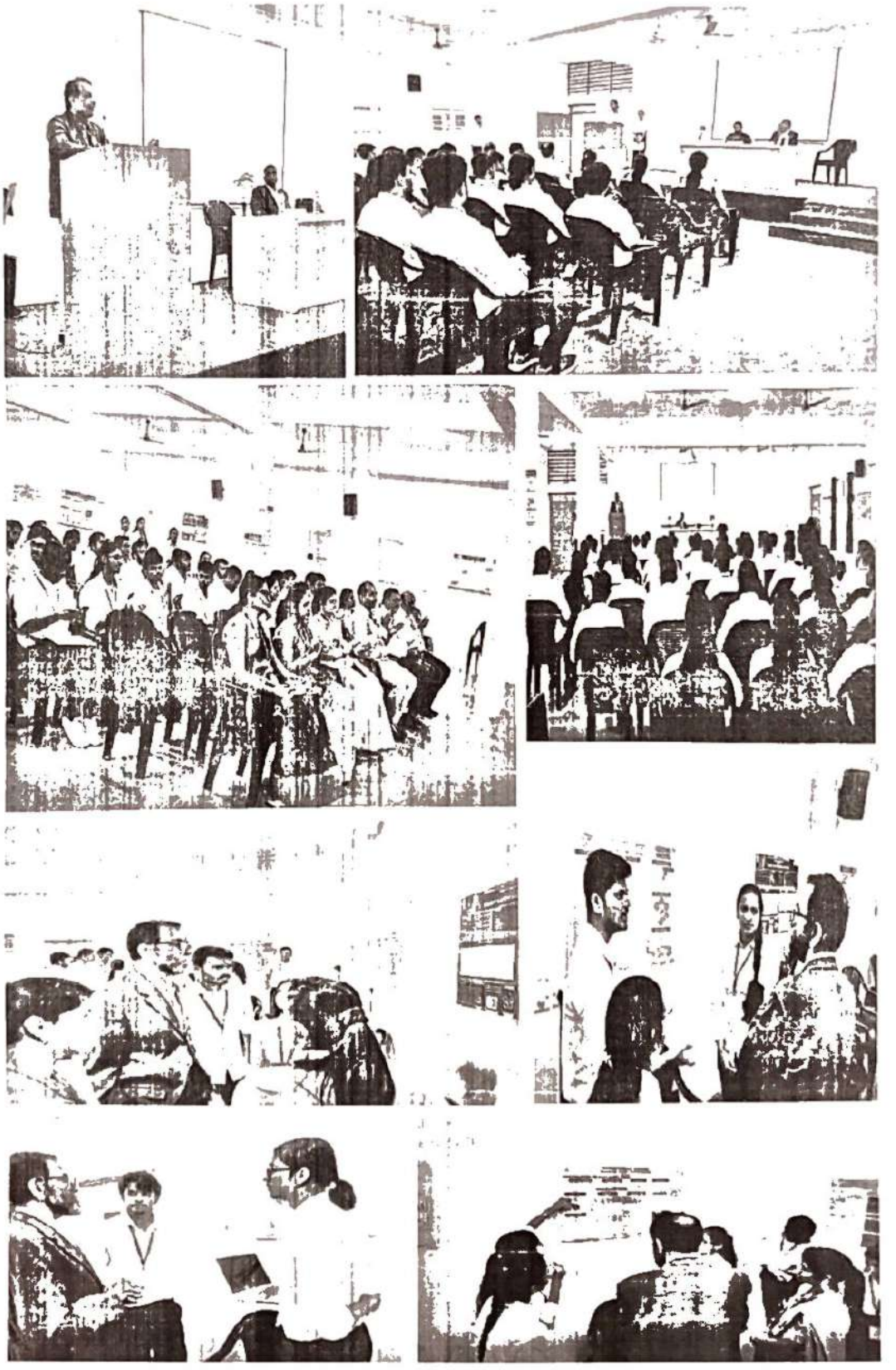
Dr. Sundar Srinivasan

Engineering Manager, Samsung R & D-Bangalore

- Engineering Manager, Program/Project Manager with over 19 years of experience Product Strategy, End to End Commercialization, Software Development / Mobile/Android & Embedded Technology, General Manager at Samsung Electronics.
- Expertise in concepts of end-to-end project planning and implementation from scope management, to activity sequencing, effort & cost estimation, risk analysis to quality management in line with international guidelines and norms
- Proficient in driving product strategy and end-to-end Solution Lifecycle Management encompassing product ideation & conceptualization, prototype development, patch management, validation, approval and deployment of solution as per client specifications
- Expert in implementing Project Methodologies like Agile / Scrum Methodology; possess broad technical knowledge of application design, architecture and application integrations; spearheaded a team of 9 to 55 personnel and completed over 90 projects.

Inauguration ceremony and exhibition images.





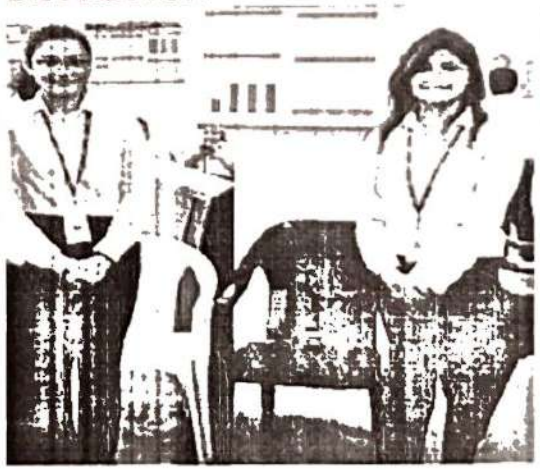
5.3 Team Projects and Poster Presentation

Team 01: STRESS DETECTION

Team 02: BOOK RECOMMENDATION SYSTEM

Team 03: IMAGE CLASSIFICATION

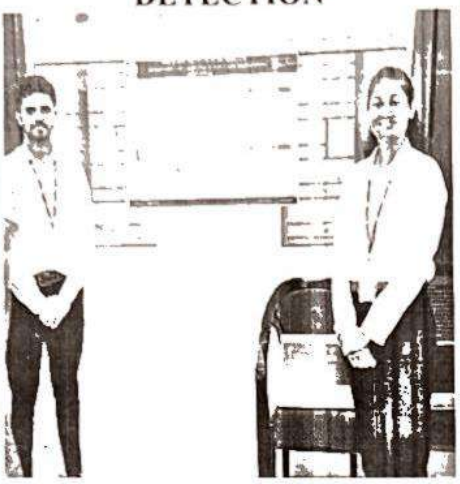
Team 04: BRAIN TUMOR DETECTION



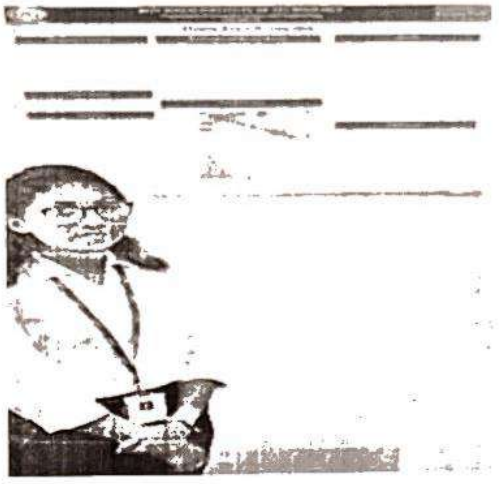
Team 05: DRIVER DISTRACTION DETECTION

Team 06: MOVIE RECOMMENDATION

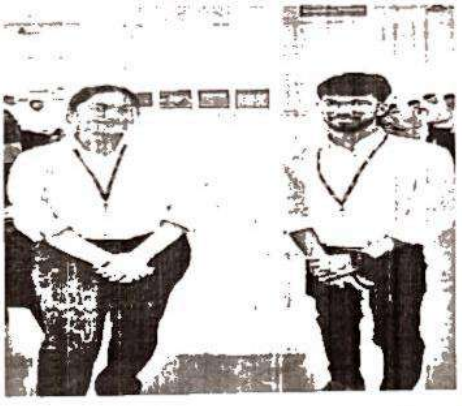
Team 07: TRAFFIC SIGN DETECTION



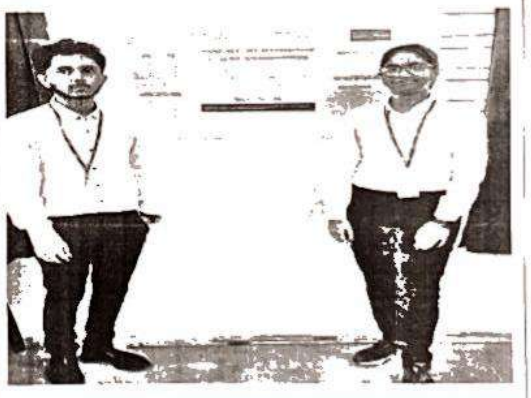
Team 08: HOUSE PRICE PREDICTION



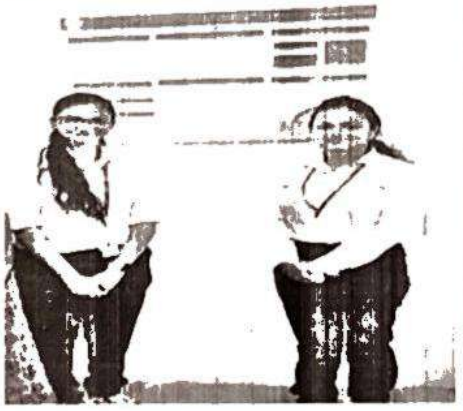
Team 09: FOOD DETECTION FOR VISUALLY IMPAIRED



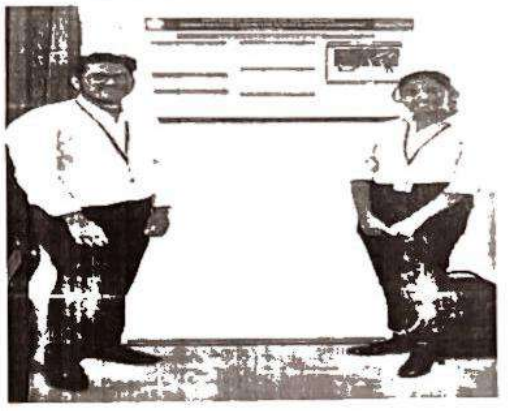
Team 10: HAND GESTURE RECOGNITION



Team 11: SMART CAREER GUIDANCE SYSTEM



Team 12: IMAGE CAPTION GENERATION



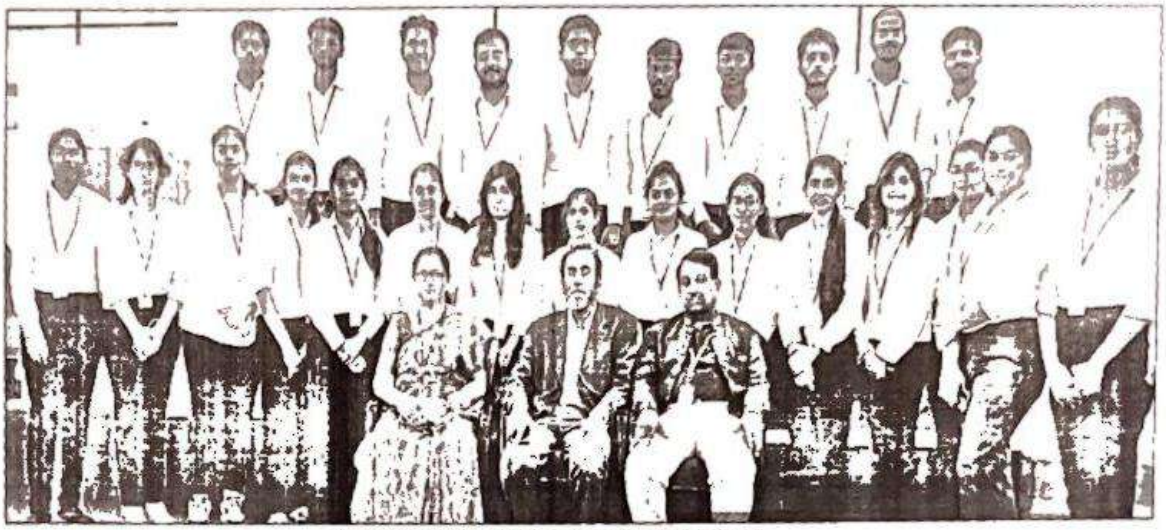
Team 13: DEEP FAKE AND MORPHED CONTENT DETECTION

Team 14: CREDIT CARD FRAUD DETECTION

Team 15: STOCK MARKET PREDICTION

Team 16: SPEECH EMOTION DETECTION

Team 17: PLANT DISEASE DETECTION SYSTEM



GROUP PHOTO OF AI BATCH

GROUP PHOTO OF C & P BATCH

List of Students under Artificial Intelligence Course

USN	Team Members	Department
1DB20CS058	KEERTHANA G	CSE
1DB20CS120	UDAY KIRAN N	CSE
1DB20CS083	PARUL SHARMA	CSE
1DB20EC026	DEVESH KUMAR	ECE
1DB20CS008	ADITYA RAJ GUPTA	CSE
1DB20CI029	NIDHI SINHA	CSE(AIML)
1DB20CS096	SHALINI P	CSE
1DB20IS141	SRUSHTI PATIL	ISE
1DB20CS121	USHA N	CSE
1DB20CS098	SHASHANK GOWDA R	CSE
1DB20CS012	AMULYA G L	CSE
1DB20CS024	ASHIKA A	CSE
1DB20CS087	SAI VINAY R	CSE
1DB20CS039	ESHAN KUSHWAH	CSE
1DB20CI008	ANUSHREE N	CSE(AIML)
1DB20CS047	HARSHITA S H	CSE
1DB20IS094	NIKHIL M	ISE
1DB20CS048	HARSHITH. B	CSE
1DB20CS119	HAINDAVI	CSE
1DB20CS016	ANKITA P KARUR	CSE
1DB20CI027	NAYANA P S	CSE(AIML)
1DB20IS095	NISARGA J	ISE
1DB20CS136	AMRUTH KAGINAKAR	CSE
1DB20CS063	KUSUMA S K	CSE
1DB20CS093	SAHIL SUNIL GOVEKAR	CSE
1DB20CS076	NEHA H SAVEKAR	CSE
1DB20EC022	DARSHAN GOWDA M	ECE
1DB20CS132	SURYA TEJA	CSE
1DB20IS102	PHALGUNI DESHPANDE	ISE
1DB20CS066	LOHITH KUMAR	CSE
1DB20EC068	RAKSHITHA S HIREMATH	ECE
1DB20EC087	SYED SAUD UR REHMAN	ECE
1DB20CS057	KAVYA C	CSE

List of Students Under Coding & Programming Course

S.no.	USN	Name	Department
1	1DB21AD030	NISARGA M	AIDS
2	1DB21AD043	REVANTH S	AIDS
3	1DB21AD052	VAISHNAVI	AIDS
4	1DB21CI011	BHUSHITHA M	CSE(AIML)
5	1DB21CI017	DHAGE SWAPNIL KALIDASRAO	CSE(AIML)
6	1DB21CI034	KEERTHI H K	CSE(AIML)
7	1DB21CI075	RONIT V RAGHAVAN	CSE(AIML)
8	1DB21CI086	SARIKA M N	CSE(AIML)
9	1DB21CI109	YASHAS K A	CSE(AIML)
10	1DB21CI110	YUVARAJ B L	CSE(AIML)
11	1DB21CS001	AAYUSH P NAIR	CSE
12	1DB21CS002	ABHISHEK H	CSE
13	1DB21CS017	ASHWIN. R	CSE
14	1DB21CS021	BALAJI M	CSE
15	1DB21CS036	DHANYASHREE M	CSE
16	1DB21CS046	GOUTHAM S K	CSE
17	1DB21CS047	GUNASAGAR G MEGHARAJ	CSE
18	1DB21CS051	HARSHITHA J	CSE
19	1DB21CS054	HIMANSHU KUMAR	CSE
20	1DB21CS097	NISHANTH V	CSE
21	1DB21CS104	PREETHAM M P	CSE
22	1DB21CS132	SANJAY JAYADEV	CSE
23	1DB21CS162	VACHANA M GADAGI	CSE
24	1DB21EC047	GOWTHAM N	ECE
25	1DB21EC050	HANEESH KUMAR D	ECE
26	1DB21EC070	KARTHIK R	ECE
27	1DB21EC165	VATAN R	ECE
28	1DB21IS025	CHANDANA G	ISE
29	1DB21IS027	CHARISHMA N	ISE
30	1DB21IS046	GAGANA R	ISE
31	1DB21IS055	KARTHIK SHREESHAIL BIRADAR	ISE
32	1DB21IS073	LEKHANA K	ISE
33	1DB21IS079	MADHU P	ISE
34	1DB21IS124	SATVI BULGUNDI	ISE
35	1DB21IS149	SUSHMITHA G	ISE

List of Project titles in Artificial Intelligence Course

Sl No.	USN	Team Members	Project Title
1	1DB20CS058	KEERTHANA G	STRESS DETECTION
	1DB20CS120	UDAY KIRAN N	
2	1DB20CS083	PARUL SHARMA	BOOK RECOMMENDATION SYSTEM
	1DB20EC026	DEVESH KUMAR	
3	1DB20CS008	ADITYA RAJ GUPTA	IMAGE CLASSIFICATION
	1DB20CI029	NIDHI SINHA	
4	1DB20CS096	SHALINI P	BRAIN TUMOR DETECTION
	1DB20IS141	SRUSHTI PATIL	
5	1DB20CS121	USHA N	DRIVER DISTRACTION DETECTION
	1DB20CS098	SHASHANK GOWDA R	
6	1DB20CS012	AMULYA G L	MOVIE RECOMMENDATION
	1DB20IS054	HARSHITHA M	
7	1DB20CS024	ASHIKA A	TRAFFIC SIGN DETECTION
	1DB20CS087	SAI VINAY R	
8	1DB20CS039	ESHAN KUSHWAH	HOUSE PRICE PREDICTION
	1DB20CI008	ANUSHREE M	
9	1DB20CS047	HARSHITA S H	FOOD DETECTION FOR VISUALLY IMPAIRED
	1DB20IS094	NIKHIL M	
10	1DB20CS048	HARSHITH. B	HAND GESTURE RECOGNITION
	1DB20CS119	TOKALA HAINDAVI	
11	1DB20CS016	ANKITA P KARUR	INTELLIGENT CAREER GUIDANCE SYSTEM
	1DB20CI027	NAYANA P S	
12	1DB20IS095	NISARGA J	IMAGE CAPTION GENERATION
	1DB20CS136	AMRUTH KAGINAKAR	
13	1DB20CS063	KUSUMA S K	DEEP FAKE AND MORPHED CONTENT DETECTION
	1DB20CS093	SAHIL SUNIL GOVEKAR	
14	1DB20CS076	NEHA H SAVEKAR	CREDIT CARD FRAUD DETECTION
	1DB20EC022	DARSHAN GOWDA M	
15	1DB20CS132	K. SURYATEJA	STOCK MARKET PREDICTION
	1DB20IS102	PHALGUNI DESHPANDE	
16	1DB20CS066	LOHITH KUMAR A	SPEECH EMOTION DETECTION
	1DB20EC068	RAKSHITHA S HIREMATH	

17	1DB20EC087	SYED SAUD UR REHMAN	CROP DISEASE DETECTION
	1DB20CS057	KAVYA C	

List of Project titles in Coding & Programming Course

Sl No.	USN	Team Members	Project Title
1	1DB21CI086	SARIKA M N	INSTAGRAM REACH ANALYSIS
	1DB21AD030	NISARGA M	
	1DB21AD052	VAISHNAVI K S	
2	1DB21CS017	ASHWIN R	USER FUNNEL ANALYSIS
	1DB21CS036	DHANYASHREE M	
	1DB21CS051	HARSHITHA J	
3	1DB21CS021	BALAJI M	STOCK MARKET ANALYSIS
	1DB21CS046	GOUTHAM S K	
	1DB21CS132	SANJAY JAYADEV	
4	1DB21EC047	GOWTHAM N	SUPERSTORE SALES AND PROFIT ANALYSIS
	1DB21EC050	HANEESH KUMAR D	
	1DB21CI075	RONIT V RAGHAVAN	
	1DB21CI110	YUVARAJ B L	
5	1DB21IS073	LEKHANA K	SCREEN TIME ANALYSIS
	1DB21IS046	GAGANA R	
	1DB21IS149	SUSHMITHA G	
	1DB21IS027	CHARISHMA N	
6	1DB21CI011	BHUSHITHA M	SMART WATCH DATA ANALYSIS
	1DB21CI034	KEERTHI H K	
	1DB21IS055	KARTIK S B	
7	1DB21CS002	ABHISHEK H	NETFLIX DATA ANALYSIS
	1DB21IS079	MADHU P	
	1DB21CS054	HIMANSHU KUMAR	
8	1DB21IS124	SATVI B	WHATSAPP CHAT ANALYSIS
	1DB21CS162	VACHANA MG	
	1DB21CS047	GUNASAGAR G MEGHARAJ	
9	1DB21CS001	AAYUSH P NAIR	IPL 2022 ANALYSIS
	1DB21CI109	YASHAS K A	
	1DB21CI017	DHAGE SWAPNIL KALIDASRAO	
10	1DB21CS104	PREETHAM M P	RECESSION ANALYSIS
	1DB21CS097	NISHANTH V	
	1DB21AD043	REVANTH S	