



**DJS S4DS – Students' Chapter**  
**(For the A.Y. 2024-25)**

**BRANCH COUNCELLOR**  
Dr. Kriti Srivastava

**FACULTY TREASURER**  
Prof. Pradnya Saval

**CHAIRPERSON**  
Aryan Rajpurkar

**VICE CHAIRPERSON**  
**(TECHNICAL)**  
Swar Jagdale

**VICE CHAIRPERSON**  
**(ADMIN)**  
Riya Chavan

**EVENTS HEAD**  
Priyansh Patel  
Jenil Shah  
Shreya Singh

**CREATIVES HEAD**  
Aayushi Singh  
Pratiksha Mehta  
Nishtha Panchal

**TECHNICAL HEAD**  
Aaron Sequeira  
Vedant Naik  
Taher Afsar

**EDITORIAL HEAD**  
Dhruv Ojha  
Vanshik Waghela  
Vaishnavi Shreedhar

**MARKETING HEAD**  
Tanisha Chavan  
Jay Topiwala  
Jay Mehta

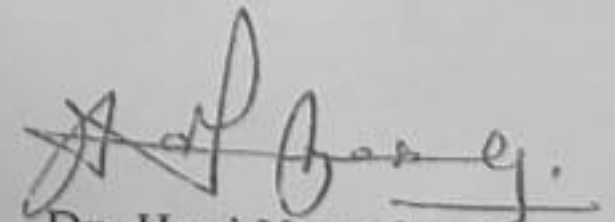
**LOGISTICS HEAD**  
Heet Chaudhari  
Arham Bafna  
Krisha Shah

**PUBLICITY HEAD**  
Bhoomika Agarwal  
Vedansh Muni  
Meet Kothari

**CO-ORDINATOR**  
**(DJS-TRINITY)**  
Bandhan Sawant  
Sparsh Jain

**SOCIAL REPRESENTATIVE**  
**(DJS-NSS)**  
Shriya Kela  
Hitanshu Shah

Good wishes to everyone in the committee!

  
Dr. Hari Vasudevan  
(Principal)



## Byte Beginnings: A Guidance Seminar



Expert: Core members of DJS S4DS and DJS Compute Association of the expert: DJS S4DS and DJS

Compute Date of the event: 24<sup>th</sup> July, 2024

Venue: 3<sup>rd</sup> Floor Seminar Hall, DJ Sanghvi College of Engineering Participants: 115

Speakers:

ML: Aryan Rajpurkar and Swar Jagdale Web dev: Aaditya Malani and Taher Afsar

Competitive Programming: Jenil Shah and Akash Ram Women in tech: Vanshika Shah and Aayushi Singh

Hackathons: Aryan, Swar and Aaditya

Objectives of the activity:

- To welcome FEs and introduce them to domains like DAML and Web Dev
- To inspire and get them excited about competitive programming and becoming experienced in the field of Data Science.

Contents:

On September 24<sup>th</sup>, 2024, DJS-S4DS hosted Byte Beginnings, a seminar to inspire juniors and equip them with knowledge. Experienced seniors stepped up as mentors for this event, guiding attendees through important domains like Machine Learning, Web Development and



**Competitive Programming.**

The seminar began with expert core members explaining the juniors about what they should learn to excel in their chosen domain: a complete end-to-end roadmap detailing the concepts, languages and programming practices they should be proficient in throughout their semesters at the college. The juniors were also given a complete guide about how to approach competitive programming and how beneficial it can be for them. They were also introduced to competitions exclusive to female coders, in the 'Women in tech' section. The event ended with a very interactive session about hackathons, how to participate, relevant practices and important dos and don'ts.

Seniors shared lessons they learnt on their journeys and how they overcame their challenges. Participants asked questions regarding contents of the presentation, seeking guidance on their own tech aspirations and what future their domain of interest has.

**Outcomes:**

- Participants gained practical insights into DAML, Web dev and coding, expanding their technical knowledge.
- Exposure to different domains and career paths helped participants identify their areas of interest.
- Juniors had the opportunity to interact with seniors, network and get advice on coding and academics.

**Program Outcomes mapped (Please tick the mapped POs):**

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
✓	✓		✓	✓	✓	✓	✓		✓		✓

**Program Specific Outcomes mapped (Please tick the mapped PSOs):**

PSO1	PSO2	PSO3	PSO4
✓			

Photographs (with captions)



Seniors explaining about different domains



Interactive doubt-solving session

Attendance:

Sr. No	Name	Branch	Year
1	Preet Pragneshkumar Shah	CSE-DS	FE
2	Nikhil Pise	CSE-DS	FE
3	Akarshak Singh	CSE-DS	FE
4	Aarana Chaurasia	CSE-DS	FE
5	Dhruv Rajendra Badhe	CSE-DS	FE
6	Atharva Agalawe	CSE-DS	FE
7	Rudra Pal	CSE-DS	FE
8	Darshan Ved	CSE-DS	FE
9	Bhavika Jhanwar	CSE-DS	FE
10	Siya Rozani	AIDS	FE
11	Atharva Anil Achirnekar	AIML	FE
12	EESHA PATEL	CSE-DS	FE
13	Vidit	AIDS	FE
14	Paavan Shah	AIML	FE



15	Jaimil Maniar	AIML	FE
16	Pratik Giya	CSE-DS	FE
17	Vidhi	CSE-DS	FE
18	Aayushi Divecha	CSE-DS	FE
19	Avishi Airen	CSE-DS	FE
20	Neil Mhatre	CSE-DS	FE
21	Nitesh S. Thakur	CSE-DS	FE
22	Aarav Dave	CSE-DS	FE
23	Mohit	CSE-DS	FE
24	Rishi Gitesh Bhanushali	CSE-DS	FE
25	Atharva Mehta	CSE-DS	FE
26	Zimaad Azhari	CSE-DS	FE
27	Hetansh Waghela	CSE-DS	FE
28	Div vyas	CSE-DS	FE
29	Udisha Jha	CSE-DS	FE
30	Sayuri	CSE-DS	FE
31	Vraj Ved	CSE-DS	FE
32	Lavisha	CSE-DS	FE
33	Saket Sandip Ambatkar	CSE-DS	FE
34	Gauri	CSE-DS	FE
35	Vrushti vora	CSE-DS	FE
36	Aryan Kirit Tanna	CSE-DS	FE
37	Lakshita Sethia	CSE-DS	FE



38	Devanshi Babariya	CSE-DS	FE
39	Tanish Dadlani	CSE-DS	FE
40	Rivaan Shah	CSE-DS	FE
41	Yuvika Gupta	AIDS	FE
42	Vipin Thingalaya	AIML	FE
43	Aaryan Chaudhari	CSE-DS	FE
44	Manthan gala	CSE-DS	FE
45	Yug doshi	CSE-DS	FE
46	Shravani baraskar	CSE-DS	FE
47	Bhumi Shah	CSE-DS	FE
48	Miti shah	CSE-DS	FE
49	Prisha Kulkarni	CSE-DS	FE
50	Anikait	CSE-DS	FE
51	Jiya	CSE-DS	FE
52	Divya Kothari	CSE-DS	FE
53	Dhruvi Shah	CSE-DS	FE
54	Avinash Gupta	CSE-DS	FE
55	Nacheeket Jignesh Shah	CSE-DS	FE
56	Kshitij Shah	CSE-DS	FE
57	Sakshi Shirke	CSE-DS	FE
58	Sanchit Thakre	CSE-DS	FE
59	Kashish Rathod	CSE-DS	FE
60	Yash	CSE-DS	FE



61	Khush Thakkar	CSE-DS	FE
62	Nihaal bhanushali	CSE-DS	FE
63	Moksh Lakhani	CSE-DS	FE
64	Chinmay	CSE-DS	FE
65	Krupa Mehta	AIML	FE
66	Raunak shukla	CSE-DS	FE
67	Vansh Patil	CSE-DS	FE
68	Shlok Bare	CSE-DS	FE
69	Krishna Dave	CSE-DS	FE
70	Darshil mehta	AIML	FE
71	Arnav Chaudhari	CSE-DS	FE
72	Muskan	CSE-DS	FE
73	Anshul Shah	CSE-DS	FE
74	Aryan Mirchandani	CSE-DS	FE
75	Atharva Suryavanshi Patil	CSE-DS	FE
76	Sahana	AIML	FE
77	Tiara	CSE-DS	FE
78	Keval Shah	CSE-DS	FE
79	Kanya Ajmera	CSE-DS	FE
80	Ashna Gadade	AIML	FE
81	Charu Tarak Mehta	CSE-DS	FE
82	Indraneel Samanta	AIML	FE
83	Tanishka	Comps	FE



84	Dev Parag Sanghavi	Comps	FE
85	Vansh Kotwani	Comps	FE
86	Viraj shah	Comps	FE
87	Mahi Mehta	Comps	FE
88	mahek sanghvi	Comps	FE
89	Panini Shah	Comps	FE
90	Zalak Gala	Comps	FE
91	Arushi Kumar	IT	FE
92	Risha Deshmukh	Comps	FE
93	Turvi Nehete	Comps	FE
94	Vandit Bhaven Mehta	Comps	FE
95	Vihaan Morvadiya	IT	FE
96	Manav Gandhi	IT	FE
97	Nishita Halankar	Comps	FE
98	Ashita Patel	Comps	FE
99	Nilish Shah	Comps	FE
100	Hitansh	Comps	FE
101	Shlok Sachin Shah	Comps	FE
102	Darshan Davda	Comps	FE
103	Mayuresh Gavankar	Comps	FE
104	Parth Gupta	Comps	FE
105	Yash Shah	Comps	FE
106	Akshat Jain	IT	FE



107	Vansh patel	IT	FE
108	Het Sanghavi	Comps	FE
109	Sid Soni	Comps	FE
110	Harsh shah	Mechanical	FE
111	Preet	Comps	FE
112	Mehek Shah	Comps	FE
113	Sarvesh Rajput	CSE-ICB	FE
114	Parva Vora	Comps	FE
115	Kruttika Hebbar	CSE-DS	SE

Faculty Coordinator

(Prof. Pradnya Saval Joshi)

Head of the Department

(Dr. Kriti Srivastava)



### Github and Hackathon workshop



**Expert:** Core members of DJS S4DS and DJS Compute Association of the expert: DJS S4DS and DJS Compute

**Date of the event:** 21 August, 2024

**Participants:** 81

**Objectives of the activity:**

- Familiarize the attendees with Git and GitHub functionalities.
- Provide tips and good practices while working on GitHub.
- Conduct an extensive workshop about Hackathons and regarding the preparation required for it.



### Content:

On August 21, 2024, the core members of DJS S4DS x DJS Compute hosted an informative workshop 'Git-Ready' for the second year students. The workshop was in two parts. The first part focused on getting the attendees an advance knowledge about Git and Github and it's use in collaboration. The second part was about the preparations , etiquette and the mindset required to participate and win Hackathons. Both parts were curated and led by the core members of DJS Compute and DJS S4DS.

During the workshop , attendees installed Git and created accounts on GitHub , learned about useful git commands and practiced it simultaneously on their laptops with the help of the core members. The core members shared their personal experiences while participating in Hackathons and talked about the possible shortcomings that second year students can face and how to overcome them. Tools for creating good projects were also provided with a a brief explanation about them.

The event concluded with a Q&A session, where attendees had the opportunity to ask questions and clarify their doubts. The core members addressed some frequently asked questions

and misconceptions about Hackathons and gave a clear roadmap on how to proceed .

Overall, the workshop was successful in establishing the basics of Git and GitHub , and providing a guide to compete in Hackathons creating enthusiasm and confidence amongst the attendees.

### Outcomes:

- Attendees left with a thorough understanding of Git and GitHub and its functionality.
- Attendees were equipped with tools, practices and ideas to standout from the crowd in Hackathons and create winning projects.
- The interactive workshop gave the attendees an environment to network and share their ideas.



**Program Outcomes mapped (Please tick the mapped POs):**

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
✓	✓		✓	✓	✓		✓	✓	✓	✓	✓

**Program Specific Outcomes mapped (Please tick the mapped PSOs):**

PSO1	PSO2	PSO3	PSO4
✓			

**Photographs (with captions)**



Core members of DJS Compute explaining basics of

DJS S4DS core explaining Git good practices in Hackathons



**Attendance:**

1	Tanish Dadlani	60009230092
2	Kashvi Nagwadia	60009230047
3	Shruti	60009230122
4	Siddhant Patel	60009230121
5	Durvi Bangera	60009230130
6	Supriya Patil	60009230149
7	Yash Ghogale	60009230134
8	Omkar P. Bandikatte	60009230009
9	Yati Rathod	60009230026
10	Rishit Mahesh	60009230199
11	Soham Kishor Walam	9987236183
12	Rhea Sanghvi	60009230023
13	Krishna Jain	60009230138
14	Sian Rodrigues	60009230197
15	Dhruv Chotalia	60017230017
16	Shreya Padol	60009230150
17	Vivek Chauhan	60009230029
18	Zeel Bhadra	60009230058
19	Daksh	60009230159
20	Pakshal Jain	60009230198
21	Jagdish Choudhary	60017230100
22	Kabir Mathur	60009230137
23	Neil Ravat	60009230004
24	Jay Guri	60009230141
25	Yaah Patel	60009230180
26	Megh Dave	60009230176

27	Aishwarya Deshmukh	60009230154
28	Ajitkumar Singh	60009230158
29	Lokesh Sunil Sahuji	60009230155
30	Tirth Gosar	60009230001
31	Siddhanth Chapade	60017230107
32	Tanmay Pankajkumar Chaudhari	60009230194
33	Nitish Singh	60009230111
34	Sharvari Gupte	60009230131



Department of Computer Science & Engineering (Data Science)

35	Vyom Gala	60009230161
36	Nishita Waghela	60009230008
37	Krishil Parikh	60017230001
38	Krishna Maisheri	60017230105
39	Ketan Sunil Gaikwad	60009230010
40	Prisha Gupta	60009230027
41	Krutika hebbbar	60009230188
42	Ketaki Joshi	60009230118
43	Kashish Mandhane	60009230195
44	Mehika Jhaveri	60009230177
45	Omkar Haryan	60009230151
46	Udit	60009230178
47	Stutee Mehta	60009230005
48	Vrushti Kulkarni	60018230094
49	Hitanshu Gala	60003230283
50	Mihir Mashruwala	60009230182
51	Vedant Shirgaonkar	60009230002
52	Lamaq Mohammed Mujpurwala	60009230107
53	Vedant Gadge	60009230120
54	Krishna Vora	60009230019
55	Tanisha Prabhu	60009230156
56	Panav Jogi	60009230064
57	Riya Shah	60009230017
58	Yash B Patel	60009230003
59	Yash Ganatra	60009230011
60	Swastik Chiplunka	60009230146
62	Chaitra Milind Rane	60002231005
63	Diya Paghdal	60009230049
64	Vedant Jogidasani	60009230125
65	Krish Tanna	60009230022
66	Dhvani	60009230034
67	Ebrahim	60009230164
68	Devaansh	60009230172
69	Kirtan	60009230167
70	Akshat	60009230169
71	Dhruvin	60009230160
72	Keyush nisar	60009172041
73	Dhairya	60009230173



Department of Computer Science & Engineering (Data Science)

74	Hitansh	60009230061
75	harsh rathod	60009230144
76	Avena jain	60009230179
77	krisha bharwada	60009230189
78	Jaineel Pandya	60009230166
79	Pranjay Sharma	60009230116
80	parin mody	60009230170
81	smayan kulkarni	60009230142

61	Jenith Ambavat	60009230163
62	Chaitra Milind Rane	60002231005
63	Diya Paghdal	60009230049
64	Vedant Jogidasani	60009230125
65	Krish Tanna	60009230022
66	Dhvani	60009230034
67	Ebrahim	60009230164
68	Devaansh	60009230172
69	Kirtan	60009230167
70	Akshat	60009230169
71	Dhruvin	60009230160
72	Keyush nisar	60009172041
73	Dhairya	60009230173
74	Hitansh	60009230061
75	harsh rathod	60009230144
76	Avena jain	60009230179
77	krisha bharwada	60009230189
78	Jaineel Pandya	60009230166
79	Pranjay Sharma	60009230116
80	parin mody	60009230170
81	smayan kulkarni	60009230142

Faculty co-ordinator

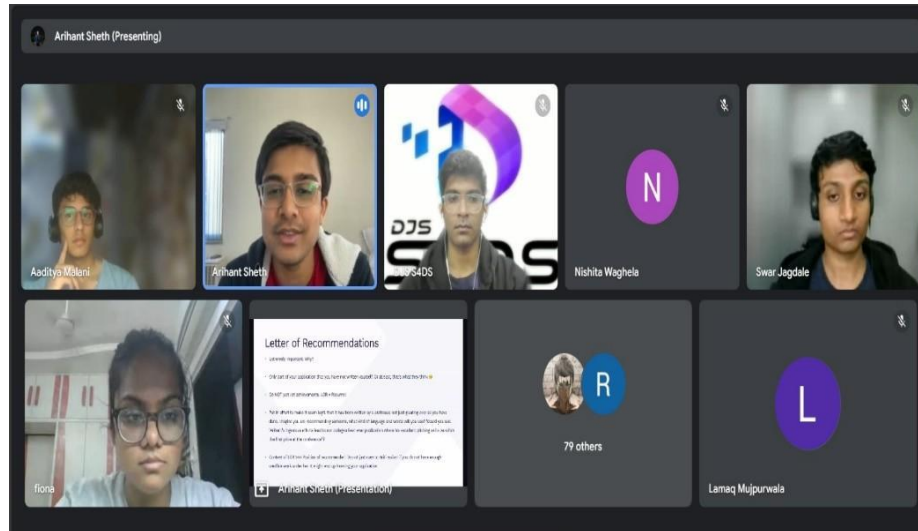
( Prof. Pradnya Saval Joshi )

Head of the Department

( Dr. Kriti Srivastava )



## Masters 101 Webinar



Expert: Arianth Sheth - ex-Chairperson of DJS-S4DS Host : Aryan Rajpurkar - Chairperson of DJS-S4DS

Association of the expert: DJS S4DS Date/s of the event: 10 October, 2024 Participants:

99

Objectives of the activity:

- To demystify the MS application process by sharing practical advice on how to apply to top-tier programs in the U.S. and other countries.
- To provide insights into CMU's Computational Data Science program, Arianth's experience was meant to shed light on what it takes to gain admission to a world-renowned program like CMU's.
- To discuss the future of Computational Data Science and help members understand the growing importance of data science, its applications, and future career opportunities.
- To provide actionable tips on building a winning profile so that attendees would leave with clear strategies for improving their chances of being admitted to highly competitive programs.



#### Contents:

On October 10, 2024, DJS S4DS hosted an exclusive webinar titled "Masters 101: Your Roadmap to Excellence." The event aimed to equip its members with crucial knowledge and strategies for navigating the highly competitive graduate school application process, particularly within data science programs. Arihant Sheth, an ex-chairperson of DJS S4DS and a current MS student at Carnegie Mellon University (CMU), served as the keynote speaker, offering participants an insider's perspective on how he successfully gained admission to CMU's renowned Computational Data Science program. This was an invaluable opportunity for attendees to learn from someone who had recently achieved what many of them aspire to do.

Arihant's presentation began by addressing the need to build a comprehensive and well-rounded academic profile, which forms the foundation for a successful application. He emphasized the significance of maintaining strong grades, particularly in courses related to data science, mathematics, and computer science and discussed the importance of standardized tests such as the GRE. A major focus of the session was the importance of writing a compelling Statement of Purpose (SOP), a crucial document that offers applicants the chance to tell their story and demonstrate their motivations. Arihant shared tips on how to structure the SOP, emphasizing the need to clearly articulate long-term goals, relevant experiences, and reasons for choosing a specific program. He provided examples from his own experience, detailing how he aligned his interests and aspirations with CMU's data science curriculum and research opportunities, making his application more personalized and convincing. The webinar also included a detailed discussion on the role of recommendation letters. Arihant underscored that strong, personalized recommendations from professors or industry professionals who can vouch for a student's academic abilities, work ethic, and potential are a key factor in the selection process. He offered advice on how to build meaningful relationships with mentors and professors, ensuring they can write impactful letters of recommendation. The event concluded with an interactive Q&A session, where participants were able to ask Arihant specific questions regarding their own application process and future career goals.

Arihant Sheth's success story, along with his practical advice on navigating the application process and insights into the future of data science, left participants motivated and better prepared to pursue graduate studies in data science. The event successfully met its objectives, inspiring students to take actionable steps toward achieving their academic and career goals.

#### Outcomes:

- Attendees left with a better understanding of how to navigate the complex process of applying to competitive MS programs.
- Members were equipped with practical strategies to enhance their academic, professional, and extracurricular profiles.
- The interactive Q&A session provided attendees with a chance to get personalized advice from someone who has successfully navigated the MS application process.



Program Outcomes mapped (Please tick the mapped POs):

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
			✓		✓			✓			✓

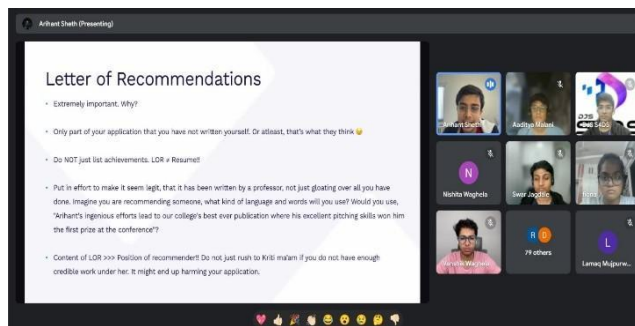
Program Specific Outcomes mapped (Please tick the mapped PSOs):

PSO1	PSO2	PSO3	PSO4
✓			

Photographs (with captions)



Arihant gives insights on writing an SOP



The importance of a good LOR



### Attendance

Sr No	NAME	YEAR
1	Aaditya Malani	TE
2	Aakarshit Saxena	SE
3	Aaron Sequeira	TE
4	Aarushi Tahilramani	SE
5	Aaryan	SE
6	Aayush Shetty	SE
7	Abhijeet	SE
8	Abhijeet Sagar	SE
9	Aditya Gupta	SE
10	Aditya Kathe	SE
11	Ajinkya Vengurlekar	SE
12	Ananya Godse	TE
13	Ankit Datta	SE
14	Anvi Phadke	SE
15	Archi Patel	TE
16	Arham Bafna	TE
17	Arnii Srivastava	SE
18	Arya Mangaonkar	TE
19	Aryan Chintakindi	TE
20	Aryan Rajpurkar	TE
21	Ayushi Singh	TE
22	Bandhan Sawant	TE
23	Bhargavi Naik	SE
24	Bhoomika Agarwal	TE
25	Chandan Sanjay Singh	SE
26	Charmi Panchal	TE
27	Daksh Goyal	SE

28	Deep Rathod	SE
29	Delanie Rodrigues	TE
30	Dhruv Ojha	TE
31	Diti Solanki	SE
32	Ebrahim Gamdiwala	SE
33	Fiona Haria	TE
34	Harsh Shah	SE
35	harshil bhanushali	SE
36	Harshil Solanki	TE
37	Harshvardan Pandey	TE
38	Heet Choudhari	TE
39	Hiren Waghela	SE
40	Hitanshu Shah	TE
41	Isha Solanki	TE
42	Jay Mehta	TE
43	Jay Topiwala	TE
44	Jenil Shah	TE
45	Kalash Jain	SE



46	Kanupriya Sharma	SE
47	Kartik Nambiar	TE
48	Kartikeya Pandey	TE
49	Khushi Parekh	SE
50	Krish Seta	SE
51	Krish Thakkar	TE
52	Krishna Shah	TE
53	Krishna Sharma	TE
54	Krishnakant singh	SE
55	Meet Kothari	TE
56	Meet Vaidya	TE
57	Mohammad Farhan	TE

58	Mustansir Hariyanawala	SE
59	Netra Sangani	SE
60	Nishtha	TE
61	Nitish Singh	SE
62	Omkar Pramod Bandikatte	SE
63	Paanv Jogi	SE
64	Parth Patel	TE
65	Pranay	SE
66	Pratham Manish Kitawat	SE
67	Pratiksha Mehta	TE
68	Prisha Gupta	SE
69	Priyansh Patel	TE
70	Reeva Jain	SE
71	Rishabh Sharma	SE
72	Riya Chavan	TE
73	Rugved Kulkarni	SE
74	Shakthi R	SE
75	Shamit Zaveri	SE
76	Shantanu Bhor	SE
77	Sharvari Gupte	SE
78	Shreya Singh	TE
79	Shriya Kela	TE
80	Sparsh Jain	TE
81	Swar Jagdale	TE
82	Taher Afsar	TE
83	Tanish a Chavan	TE
84	Taran Singh	SE
85	Tarun Rajeev Rajauria	SE
86	ujjwal warade	SE
87	Vaishnavi Shridhar	TE
88	Vanshik Waghela	TE

89	Vanshika Shah	TE
90	Varun	SE
91	Vedansh Muni	TE
92	Vedant Gadge	SE



93	Vedant Naik	TE
94	Vidhi Parmar	TE
95	Vini Surani	SE
96	Vipul Mhatre	TE
97	Vivek Chauhan	SE
98	Vyom Mangtani	SE
99	Yash Patel	SE

Faculty co-ordinator  
( Prof. Pradnya Saval Joshi )

Head of the Department  
( Dr. Kriti Srivastava )



## DataHack 3.0

**Date of Event:** 19, 20th October 2024

**Platform:** Offline **Participants :** 155 **Objectives of the Activity:**

- To provide a platform for participants to show their skills in four different domains of Machine Learning and Artificial Intelligence to solve real-world problems.
- To offer guidance and support the participants throughout the entire 24 hour competition.

### **Content:**

On October 19 and 20th, 2024 DJS S4DS organized a 24-hour hackathon, DataHack 3.0. It was the 3rd edition of its flagship event held every year. The entire S4DS committee had worked together to set everything up and prepare for the big event for over a month. The hackathon had called in over 1300 team registrations from which only 40 were selected to move forward into the final offline coding round held in SVKM's Dwarkadas J. Sanghvi College of Engineering.

The event began at 10 a.m. on 19th October with an opening ceremony that included speeches from Computer Science and Engineering (Data Science) branches' head of department Dr. Kriti Srivastava and Dwarkadas J. Sanghvi College of Engineering's principal Dr. Hari Vasudevan sir and also the vice principal Dr. Narendra Shekokar and our revered chief guest Amar Bafna.

The Data Science problem statement was based on Flight Profile Generation for Enhanced Aviation Operations, MLOps was based on Pipeline for Paleto Bay Restaurant Network where Paleto Bay was a fictional place and the participants had to create a MLOps pipeline to process restaurant data, transforming raw sales and inventory information into actionable.



The AI problem statement was based on Adaptive Quiz Platform Leveraging MultiModal Flashcards to generate multimodal flashcards—including text, images, videos, and audio—to optimize personalized training experiences. Finally the NLP problem statement revolved around a Cybersecurity Platform Featuring an AI-Driven Assessment Bot.

Three of the four problem statements were sponsored. The MLOps PS was sponsored by DrillDown, Artificial Intelligence PS was sponsored by AI4EducationLabs and NLP PS was sponsored by Allied Digital Services.

The judges present to review the solutions created by the teams were from the following companies Morgan Stanley, Drilldown, JP Morgan, Allied DS, Swiggy, AI4ED, etc.

The event concluded late on the evening of 20th October with the closing ceremony along with speeches from all respected judges and prize distributions for the top 3 teams.

**Program Outcomes mapped (Please tick the mapped POs):**

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Program Specific Outcomes mapped (Please tick the mapped PSOs):**

PSO1	PSO2	PSO3	PSO4
✓	✓	✓	



**Photographs:**



PS being explained by the companies



Chief guest inspiring the students



Dr. Kriti Srivastava felicitating the winners during



Dr. Kriti Srivastava winners of Datahack 3.0 giving her speech during the opening ceremony

Team Name	Candidate's Name	Candidate's Organisation
-----------	------------------	--------------------------

Sr No.

1 Bit by Bit	Burhanuddin Rajkotwala	Dwarkadas J. Sanghvi College of Engineering
2 Bit by Bit	Nacheeket shah	
3 < Block.sol / >	Nitin Billa	DJ Sanghvi College of Engineering
4 Tech Warrior	Vikas Pal	Chameli Devi Group of Institution (CDGI), Indore
5 boolean pandits	Vihaan Shinde	Sardar Patel Institute of Technology (SPIT),
6 BrownHittlers	Swapnil Pamu	Vishwakarma Institute Of Technol
7 DataNova	Abhay Bairagi	Jabalpur Engineering College (JEC), Jabalpur
8 A-Train	Tathagat Sengupta	Sardar Patel Institute of Technology (SPIT),
9 Overload Oblivion	Saurav Haldar	DJ Sanghvi College of Engineering
10 OutOfBounds	PRATHAMESH MAHALE	Vishwakarma Institute of Information Technol
11 py.charmers	Mansi Dhamne	Sardar Patel Institute of Technology (SPIT),
12 py.charmers	Akshay Gokhale	Sardar Patel Institute of Technology (SPIT),
13 py.charmers	Vivek Gangwani	Sardar Patel Institute of Technology (SPIT),
14 py.charmers	Purav Ahya	Sardar Patel Institute of Technology (SPIT),
15 Data Dynamos	Atharva Deshpande	SCTR's Pune Institute of Computer Technology, P
16 Data Dynamos	Soham Yedgaonkar	SCTR's Pune Institute of Computer Technology, P
17 Parallel Transcend	Dipesh Todi	Thadomal Shahani Engineering College (TSEC),
18 Team Grit	Pradnyanand Bhadarge	Vishwakarma Institute of Information Technolog
19 NOps	Prathmesh Raut	DJ Sanghvi College of Engineering
20 NOps	Shobit Gupta	DJ Sanghvi College of Engineering
21 1of1	MAAZ SABOOWALA	Dwarkadas J. Sanghvi College of Engineering
22 Gradient Descenders	Tanmay Sinkar	Sardar Patel Institute of Technology (SPIT),
23 Mugiwara	ARYAN Abhale	DJ Sanghvi College of Engineering
24 Mugiwara	GARV TRIVEDI	DJ Sanghvi College of Engineering
25 KnowWiz	Rahul Dhanak	KJ Somaiya Institute of Technology, Sion
26 KnowWiz	Arya Gami	KJ Somaiya Institute of Engineering and Informat
27 Falcons	Jinav Gala	Narsee Monjee Institute of Management Studies
28 Falcons	Darshit Pithadia	Narsee Monjee Institute of Management Studies
29 Syndicate	Ankush Pandey	DJ Sanghvi College of Engineering
30 Syndicate	Jsh Agarwal	Sardar Patel Institute of Technology (SPIT),
31 4_Abortion	Suyash Konduskar	DJ Sanghvi College of Engineering
32 ctrlfreaks	Viraj Vora	Veeramata Jijabai Technological Institute (VJTI),
33 Hack Smashers	Arshvir Singh Kalsi	St. Francis Institute of Technology (SFIT),
34 Hack Smashers	Manav Parekh	Dwarkadas J. Sanghvi College of Engineering
35 Heuristic Coders	Shawneil rodrigues	DJ Sanghvi College of Engineering
36 fulltimecoders	Soumya Ranjan Mishra	PES University
37 dandanheads	Diya Shah	Sardar Patel Institute of Technology (SPIT),
38 Alchemists	Atharva Nagarsekar	DJ sanghavi
39 Alchemists	Rachit Doshi	DJ sanghavi
40 Hera Pheri	Prathamesh Kulkarni	Sardar Patel Institute of Technology (SPIT),
41 Hera Pheri	Shaan Agarwal	Sardar Patel Institute of Technology (SPIT),
42 Hera Pheri	Jay Nadkarni	Sardar Patel Institute of Technology (SPIT),
43 Hera Pheri	Shubham More	Sardar Patel Institute of Technology (SPIT),
44 Anti Kaleshi	Kavya Rambhia	Veeramata Jijabai Technological Institute (VJTI),
45 Jai Shree Krishna	Reevaa Daulatabadkar	DJ Sanghvi College of Engineering
46 K means Killers	Aman Mehra	DJ Sanghvi College of Engineering

47 K means Killers	Ami Desai	DJ Sanghvi College of Engineering
48 Bazinga!	Jainam Shah	DJ Sanghvi College of Engineering
49 Chilli Chicken	Aditya Ralhan	DJ SANGHVI
50 Databaes	Mihir Mashruwala	Dwarkadase Jivanlal Sanghvi College
51 Databaes	Kartik Krishna	DJ sanghvi
52 HoodieCoolLagi	Sachhidananda Mahapat	DJ Sanghvi College of Engineering
53 Hacker's Crew	KRISH RAMANI	DJ Sanghvi College of Engineering
54 Hacker's Crew	Smit pawar	Dwarkadas J. Sanghvi College of Engineering
55 Hacker's Crew	Vaibhav Singh	DJ Sanghvi College of Engineering
56 Pattern Prophets	Arnav Gawandi	DJ Sanghvi College of Engineering
57 Pattern Prophets	Lavesh Jagwani	DJ Sanghvi College of Engineering
58 InnoVentures	Manthan gala	Dwarkadas J. Sanghvi College of Engineering
59 InnoVentures	avinash gupta	Dwarkadas J. Sanghvi College of Engineering
60 needCoffee	Dhruvi Shah	DJ SANGHVI
61 DDLJ-Dilwale Data Le Jay	Shravani Baraskar	DJ Sanghvi College of Engineering
62 Innov8	Vraj Ved	Dwarkadas J. Sanghvi College of Engineering
63 Innov8	Meet Parmar	Dwarkadas J. Sanghvi College of Engineering
64 Bit by Bit	Marmik	SVKM D.J.Sanghvi College of Engineering
65 Bit by Bit	Ahmad Azmi	Sardar Patel Institute of Technology (SPIT),
66 < Block.sol / >	Bhavik Punmiya	DJ Sanghvi College of Engineering
67 < Block.sol / >	Bhargav Pandit	DJ Sanghvi College of Engineering
68 Tech Warrior	Aayush Gid	Indore Institute of Science & Technology (IIST), In
69 Tech Warrior	Sourabh Pawar	Chameli Devi Group of Institution (CDGI), Indore
70 boolean pandits	Pratham Shirbhate	Sardar Patel Institute of Technology (SPIT),
71 boolean pandits	Aditi Pillai	Sardar Patel Institute of Technology (SPIT),
72 boolean pandits	Yash Sawant	Sardar Patel Institute of Technology (SPIT),
73 BrownHittlers	ADITYA KURAPATI	Vishwakarma Institute Of Technol
74 BrownHittlers	Aditya Jilla	Vishwakarma Institute Of Technol
75 DataNova	Mrigank Raj Dubey	Jabalpur Engineering College (JEC), Jabalpur
76 A-Train	Pranay Singhvi	Sardar Patel Institute of Technology (SPIT),
77 A-Train	Sahil Shah	Sardar Patel Institute of Technology (SPIT),
78 A-Train	Udit Rao	Sardar Patel Institute of Technology (SPIT),
79 Overload Oblivion	Yuvraj Agarwal	DJ Sanghvi College of Engineering
80 Overload Oblivion	Shantanu Dhar	DJ Sanghvi College of Engineering
81 Overload Oblivion	Rushabh Khandhar	Dwarkadase Jivanlal Sanghvi College
82 OutOfBounds	Ayush Rathod	Vishwakarma Institute of Information Technol
83 OutOfBounds	Neha Rajurkar	Vishwakarma Institute of Information Technol
84 Data Dynamos	Ayush Sheth	SCTR's Pune Institute of Computer Technology, P
85 Data Dynamos	Sharvil Chirputkar	SCTR's Pune Institute of Computer Technology, P
86 Parallel Transcend	Mitesh Singh	Thadomal Shahani Engineering College (TSEC),
87 Parallel Transcend	Abhijeet Yadav	Thadomal Shahani Engineering College (TSEC),
88 Parallel Transcend	Vinayak Jaiswal	Thadomal Shahani Engineering College (TSEC),
89 Team Grit	Mangesh Thakare	Vishwakarma Institute of Information Technolog
90 Team Grit	Yuvraj Prabhakar Sankilw	Vishwakarma Institute of Information Technolog
91 Team Grit	Kartik Dhanraj Kunjekar	Vishwakarma Institute of Information Technolog
92 NOps	Paritosh Shukla	DJ Sanghvi College of Engineering
93 NOps	Atharva Wakhare	DJ Sanghvi College of Engineering

94 1of1	Rajat Masanagi	DJ Sanghvi College of Engineering
95 1of1	Keval Shah	DJ Sanghvi College of Engineering
96 1of1	Milan Patel	DJ Sanghvi College of Engineering
97 Gradient Descenders	Aroosh Joshi	Sardar Patel Institute of Technology (SPIT),
98 Gradient Descenders	Harsh Warghade	Sardar Patel Institute of Technology (SPIT),
99 Gradient Descenders	Yaddhnyesh Choudhari	Sardar Patel Institute of Technology (SPIT),
100 Mugiwara	Ayush Mankame	Dwarkadas J. Sanghvi College of Engineering
101 Mugiwara	Harshal Loya	Dwarkadase Jivanlal Sanghvi College
102 KnowWiz	Pranav Narkhede	KJ Somaiya Institute of Engineering and Informat
103 KnowWiz	Aniruddh Sengupta	K.J. Somaiya Institute of Technology, , Maharasht
104 Syndicate	Jinit Jasani	DJ Sanghvi College of Engineering
105 Syndicate	Ronit Mehta	DJ Sanghvi College of Engineering
106 4_Abortion	Vivek Nair	DJ Sanghvi College of Engineering
107 4_Abortion	Ravirajsingh Sodha	DJ Sanghvi College of Engineering
108 4_Abortion	Saumya Desai	DJ Sanghvi College of Engineering
109 ctrlfreaks	Vidhi Rohira_CS_DH	Veermata Jijabai Technological Institute (VJTI),
110 ctrlfreaks	Chaitra Samant	Veermata Jijabai Technological Institute (VJTI),
111 ctrlfreaks	Dhruv Panchal	Veermata Jijabai Technological Institute (VJTI),
112 Hack Smashers	Krishna Vora	DJ Sanghvi College of Engineering
113 Hack Smashers	Rutu Mehta	Dwarkadase Jivanlal Sanghvi College
114 Heuristic Coders	Roushan Jha	DJ Sanghvi College of Engineering
115 Heuristic Coders	Shlok Pete	DJ Sanghvi College of Engineering
116 Heuristic Coders	Sattva Doshi	DJ Sanghvi College of Engineering
117 fulltimecoders	Suprith S	PES University (PESU), Bengaluru
118 fulltimecoders	Shreyas S	PES University (PESU), Bengaluru
119 dandanheads	Aditi Rao	Sardar Patel Institute of Technology (SPIT),
120 dandanheads	Adya Jha	Sardar Patel Institute of Technology (SPIT),
121 dandanheads	Ameya Joshi	Sardar Patel Institute of Technology (SPIT),
122 Alchemists	Ayaan Zaveri	DJ Sanghvi College of Engineering
123 Alchemists	Darshan Dihora	DJ sanghavi
124 Anti Kaleshi	Swayam Shah	Veermata Jijabai Technological Institute (VJTI),
125 Anti Kaleshi	Kevin Shah	Veermata Jijabai Technological Institute (VJTI),
126 Anti Kaleshi	Mihir Katakdhond	Veermata Jijabai Technological Institute (VJTI),
127 Jai Shree Krishna	Yash Kanjariya	DJ Sanghvi College of Engineering
128 Jai Shree Krishna	Vedant Khade	DJ Sanghvi College of Engineering
129 Jai Shree Krishna	Nishant Golakiya	DJ Sanghvi College of Engineering
130 K means Killers	Aryan Nayak	DJ Sanghvi College of Engineering
131 K means Killers	Dhaval Jain	DJ Sanghvi College of Engineering
132 Bazinga!	Krishil Parikh	DJ Sanghvi College of Engineering
133 Bazinga!	Krishna Maisheri	DJ Sanghvi College of Engineering
134 Bazinga!	Keyush Nisar	DJ Sanghvi College of Engineering
135 Chilli Chicken	Agrim Tawani	DJ SANGHVI
136 Chilli Chicken	Ankur Kumar	DJ SANGHVI
137 Chilli Chicken	Vrushti Kulkarni	DJ SANGHVI
138 Databaes	Om Kulkarni	DJ sanghavi
139 Databaes	Mehika Jhaveri	Dwarkadase Jivanlal Sanghvi College
140 HoodieCoolLagi	Varshil Shah	DJ Sanghvi College of Engineering

141 HoodieCoolLagi	Taran Singh Gadh	DJ Sanghvi College of Engineering
142 HoodieCoolLagi	Adith Shetty	DJ Sanghvi College of Engineering
143 Hacker's Crew	Harsh Jain	Dwarkadas J. Sanghvi College of Engineering
144 Pattern Prophets	Zimaad Azhari	DJ Sanghvi College of Engineering
145 Pattern Prophets	Rishi Bhanushali	DJ Sanghvi College of Engineering
146 InnoVentures	aaryan chaudhari	Dwarkadas J. Sanghvi College of Engineering
147 InnoVentures	vihaan gala	Dwarkadas J. Sanghvi College of Engineering
148 needCoffee	Omkar Kudalkar	DJ SANGHVI
149 needCoffee	Moksh Lakhani	Dwarkadas J. Sanghvi College of Engineering
150 needCoffee	Krish	DJ SANGHVI
151 DDLJ-Dilwale Data Le JayNikhil Pise		DJ Sanghvi College of Engineering
152 DDLJ-Dilwale Data Le JayManav Jain		DJ Sanghvi College of Engineering
153 DDLJ-Dilwale Data Le JayHetansh Waghela		DJ Sanghvi College of Engineering
154 Innov8	Darshan Ved	DJ sanghavi
155 Innov8	Shreyas Kulkarni	Veer mata Jijabai Technological Institute (VJTI),

Faculty co-ordinator

( Prof. Pradnya Joshi )

Head of the Department

( Dr. Kriti Srivastava )



**S4DS Members Exclusive Webinar**  
**Enhancing AI with Prompt Engineering and Retrieval-Augmented Generation (RAGs): Techniques for Real-World Applications**

The screenshot shows a Teams meeting interface with a slide titled "What makes a language model 'LARGE'?". The slide lists five points and includes two tables. The top table shows dataset statistics, and the bottom table shows GPT-3 model specifications.

Dataset	Quantity (tokens)	Weight in training mix	Epochs elapsed when training for 300B tokens
Common Crawl (filtered)	410 billion	60%	0.44
WebText2	19 billion	22%	2.9
Books1	12 billion	8%	1.9
Books2	55 billion	8%	0.43
Wikipedia	3 billion	3%	3.4

Model Name	$n_{\text{params}}$	$n_{\text{layers}}$	$d_{\text{model}}$	$n_{\text{heads}}$	$d_{\text{head}}$	Batch Size	Learning Rate
GPT-3 Small	125M	12	768	12	64	0.5M	$6.0 \times 10^{-4}$
GPT-3 Medium	350M	24	1024	16	64	0.5M	$3.0 \times 10^{-4}$
GPT-3 Large	760M	24	1536	16	96	0.5M	$2.5 \times 10^{-4}$
GPT-3 XL	1.3B	24	2048	24	128	1M	$2.0 \times 10^{-4}$
GPT-3 2.7B	2.7B	32	2560	32	80	1M	$1.6 \times 10^{-4}$
GPT-3 6.7B	6.7B	32	4096	32	128	2M	$1.2 \times 10^{-4}$
GPT-3 13B	13.0B	40	5140	40	128	2M	$1.0 \times 10^{-4}$
GPT-3 175B or "GPT-3"	175.0B	96	12288	96	128	3.2M	$0.6 \times 10^{-4}$

Speaker:

Dhruv Awasthi – AI Expert and Innovator

[Visit Dhruv Awasthi's Website](#)

Date of the Event: October 23rd, 2024 Time: 7:00 PM

Platform: Microsoft Teams Participants: 77

Objectives of the Webinar:

- To provide an introduction to advanced AI techniques, focusing on Prompt Engineering and Retrieval-Augmented Generation (RAGs).
- To demonstrate how these strategies are used to build smarter, real-world AI systems.
- To inspire S4DS members to explore cutting-edge AI applications through hands-on approaches.



**Content Overview:**

On October 23rd, 2024, S4DS conducted an exclusive webinar titled "Elevate Your AI Skills," featuring Dhruv Awasthi, an expert AI innovator. The session introduced participants to Prompt Engineering and Retrieval-Augmented Generation (RAGs), two essential strategies in developing modern AI systems.

Dhruv started the session with a deep dive into Prompt Engineering, explaining how fine-tuning input prompts can enhance the performance and accuracy of AI models. This technique, essential for optimizing large language models, was demonstrated through practical coding examples. Participants learned how well-crafted prompts can lead to more relevant, concise, and powerful outputs from AI systems.

Following that, the focus shifted to Retrieval-Augmented Generation (RAGs), a cutting-edge technique used to improve information retrieval and generation tasks in AI. Dhruv explained how RAG combines retrieval models with generation models to provide more contextually accurate and informative results. Real-world applications of this technique, such as its use in smart assistants and automated systems, were discussed.

The session was interactive, allowing participants to follow along with live coding demonstrations where Dhruv implemented a RAG model using the LangChain library. This hands-on approach gave attendees practical experience in building AI models capable of retrieving relevant information in real-time, improving the usability of AI-driven applications.

**Outcomes:**

- Attendees gained insights into Prompt Engineering and its potential to enhance AI models.
- Participants were introduced to RAGs, understanding its role in improving AI information retrieval.
- The session equipped members with practical skills to apply in their own AI projects, particularly in integrating models with data retrieval systems.
- The interactive Q&A session allowed participants to clarify doubts and seek personalized advice from Dhruv Awasthi.

Program Outcomes mapped (Please tick the mapped POs):

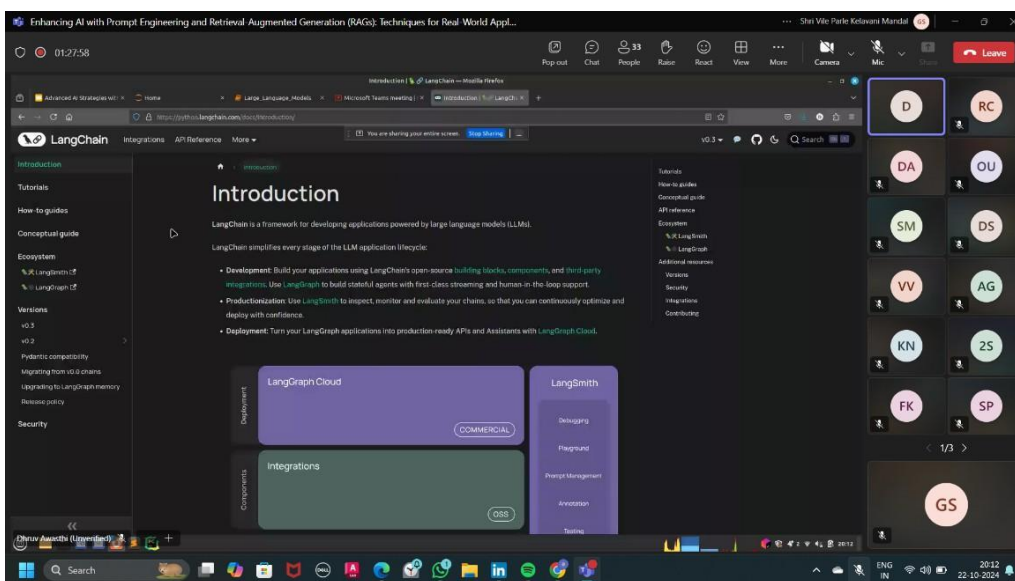
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	✓		✓	✓	✓		✓				✓

Program Specific Outcomes mapped (Please tick the mapped PSOs):

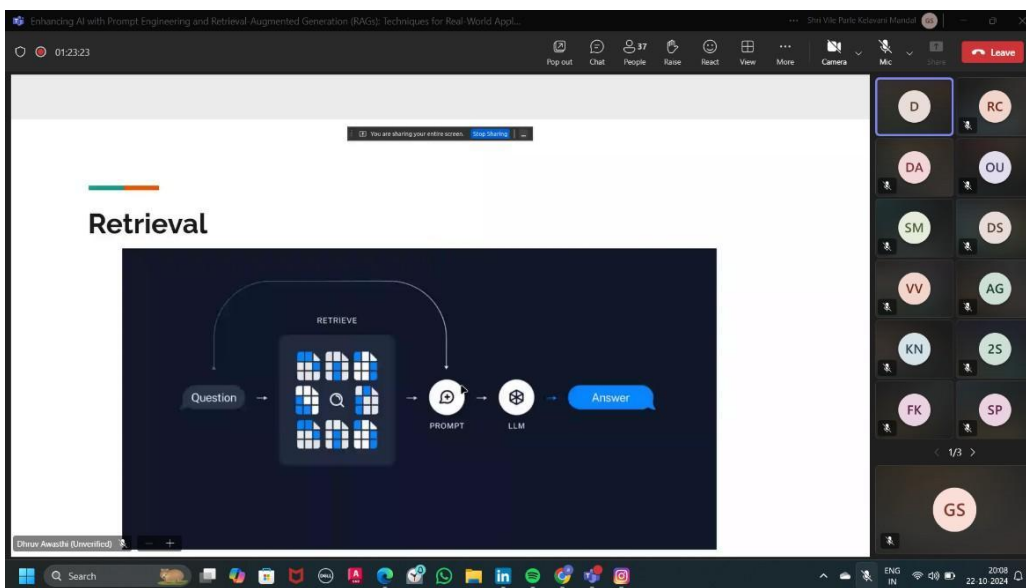
PSO1	PSO2	PSO3	PSO4
✓			



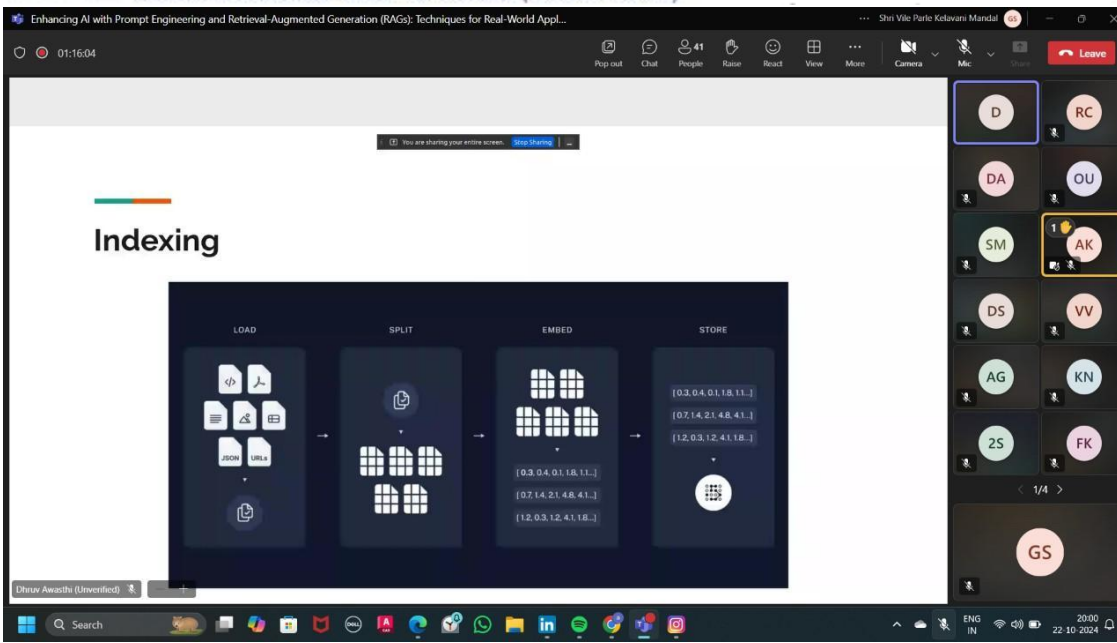
Photographs:



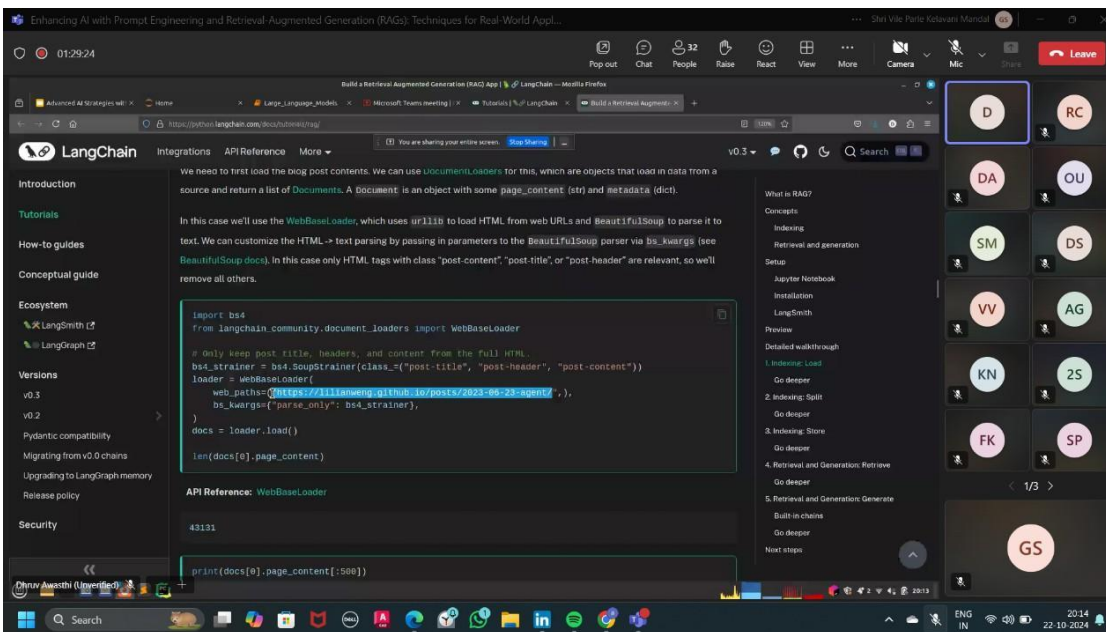
LangChain framework being introduced in a webinar led by Dhruv Awasthi.



Explaining retrieval



Starting with indexing



Python code demonstrating the RAG technique for AI integration using LangChain, shared during the webinar.

**Attendance:**

SR.NO	NAME	SAP ID
1.	RIYA CHAVAN	60009220136
2.	DRASHTI SHAH	60009210079
3.	TOYAM SHAH	60004240028
4.	VRAJ VED	60009240054
5.	NIKHIL PISE	60009240162
6.	HEET CHOUDHARI	60009220129
7.	VIKRANT KOLSE	60009240268

8.	DURVI BANGERA	60009230130
9.	HITANSHU GALA	60003230283
10.	KEITH FERNANDES	60002231046
11.	AVINASH GUPTA	60009240203
12.	TANISH DADLANI	60009230092
13.	NISHITA WAGHELA	60009230008
14..	AKSHAT SINGH	60009230201
15.	SIDDHANTH CHAPADE	60017230107
16.	AJITKUMAR SINGH	60009230158
17.	LAKSHITA SETHIA	60009240283
18.	AKARSHAK SINGH	60009240197
19.	TIRTH GOSAR	60009230001
20.	KRISHA JAIN	60009230138
21.	KRISH GANDHI	60009240025
22.	VIHAAN RAUT	60009240244
23.	OM USKAIKAR	60009210189
24.	SHRUTI DESHPANDE	60009230122
25.	VIDIT JAIN	60009240230
26..	NISHTHA PANCHAL	60009220029
27.	ZEEL BHADRA	60009230058
28.	NITISH SINGH	60009230111
29.	PARTH SHAH	60009240242
30.	JAY MEHTA	60009220027
31.	MADHAVI KANODIA	60009240147
32.	TANISHA CHAVAN	60009220086



33.	MIHIR RANDIVE	60009210192
34.	KASHVI NAGWADIA	60009230047
35.	MARMIK SHAH	60009240056
36.	SANIKA TAWATE	60009210161
37.	JENITH AMBAVAT	60009230163
38.	ATHARV PATAWAR	60009210176
39.	NIDHI PABARI	60009210173
40.	DWISHA SHAH	60009210174
41.	YASH THAKAR	60009210205
42.	FARIN KHAN	60009210140
43.	HARSH BAGDE	60009240179
44.	HIYA JAIN	60009210182
45.	JAY GURI	60009230141
46.	SIDDHANT PATEL	60009230121
47.	HARSHVARDHAN PANDEY	60009220145
48.	MEET PANDYA	60009210202



49.	ANKITA PAL	60009210130
50.	GARIMA SINGH	60002231002
51.	ARITRA BHATTACHARYYA	60009210154
52.	DIVYESH KHUNT	60009210116
53.	DHWANI GOHIL	60009210102
54.	VISHMA ADESHRA	60009210201
55.	DANISH KASMANI	60009210198
56.	OMKAR HARYAN	60009230151
57.	DHRUV OJHA	60009220179
58.	MANSI WADHWA	60009210157
59.	HARSH SHETYE	60009210068
60.	ADITYA SONAVANE	60009210142
61.	ARYANN TATED	60009210194
62.	MEGH DAVE	60009230176
63.	ARHAM BAFNA	60009220133
64.	MANAV BOSMIYA	60002230020
65.	VEDANSH MUNI	60009220046
66.	SHREENISSH SALIAN	60009210190
67.	SUPRIYA PATIL	60009230149
68.	VRUSHTI KULKARNI	60018230094
69.	SHRUSTI DAVRA	60009210097
70.	ARYAN RAJPURKAR	60009220144
71.	HETVI BHANUSHALI	60009210195
72.	VIVEK CHAUHAN	60009230029
73.	SAGAR SUTHAR	60009210180
74.	MOHAMMED MEHDI	60009210187
75.	ARNAV CHAUDHARI	60009240196
76.	MANAV PAREKH	60009240018
77.	FORAM GANDHI	60009220174

Faculty co-ordinator  
(Prof. Pradnya Saval Joshi)

Head of the Department  
(Dr. Kriti Srivastava)



Department of Computer Science & Engineering (Data Science)

## **Advanced Computing with CUDA C/C++**

**Date:** 10th February 2025

**Venue:** DJ Sanghvi College of Engineering, Mumbai

**Organized By:** DJS-S4DS

### **Objectives of the Activity:**

- To train students in accelerated computing using CUDA C/C++.
- To introduce the fundamentals of parallel computing and GPU architecture.
- To provide hands-on experience in CUDA programming and implementation.
- To familiarize students with thread management and performance optimization in CUDA.
- To enhance students' ability to apply GPU computing for high-performance applications.
- To encourage students to explore industry certifications and advanced studies in high-performance computing.

### **Content:**

The Department of Computer Science and Engineering (Data Science) successfully hosted a guest session, "Advanced Computing with CUDA C/C++", on 10th February 2025. The major agenda of the session was to train students in relevant skills and expertise on accelerated computing with CUDA C/C++. The session was being hosted in connection with the course of High-Performance Computing as part of the final year curriculum.

The major aim of the session was to make students familiar with the concept of parallel computing and CUDA programming so that they are able to apply GPU computing to optimize performance. The major topics covered were: An Introduction to GPU Architecture and CUDA Programming, The Understanding Parallel Computing and Thread Management, Hands-on Exercise on CUDA C/C++ Implementation, Best Practices to Optimize CUDA Code for Better Performance

The conference started at 1:00 PM with an introduction made by Professor Aditi Raut, which was then followed by an address by Dr. Nilesh Marathe. This session included interactive discussions and coding exercises with hands-on training, which were organized to achieve an in-depth knowledge of CUDA programming. Students were actively involved in the Q&A session, where they posed insightful questions regarding CUDA's real-world applications and performance optimization techniques.

The activity saw intense participation from final-year students pursuing the Data Science course.

The reactions of the students were very inspiring. Observations of interest from student responses: 90% of the respondents found the session to be extremely informative and interactive.



Department of Computer Science & Engineering (Data Science)

Most students enjoyed the practical exercises, which facilitated a clearer understanding of CUDA programming. Some students showed interest in NVIDIA certifications in high-performance computing.

**Outcomes of the Activity:**

- Students gained foundational and practical knowledge of GPU-based parallel computing.
- Enhanced understanding of CUDA programming and its real-world applications.
- Improved problem-solving skills through hands-on exercises and interactive discussions.
- Increased student interest in pursuing NVIDIA certifications in high-performance computing.
- Strengthened the bridge between academic learning and industry practices.
- Encouraged further exploration of GPU computing for research and project development.

Program Outcomes mapped (Please tick the mapped POs):

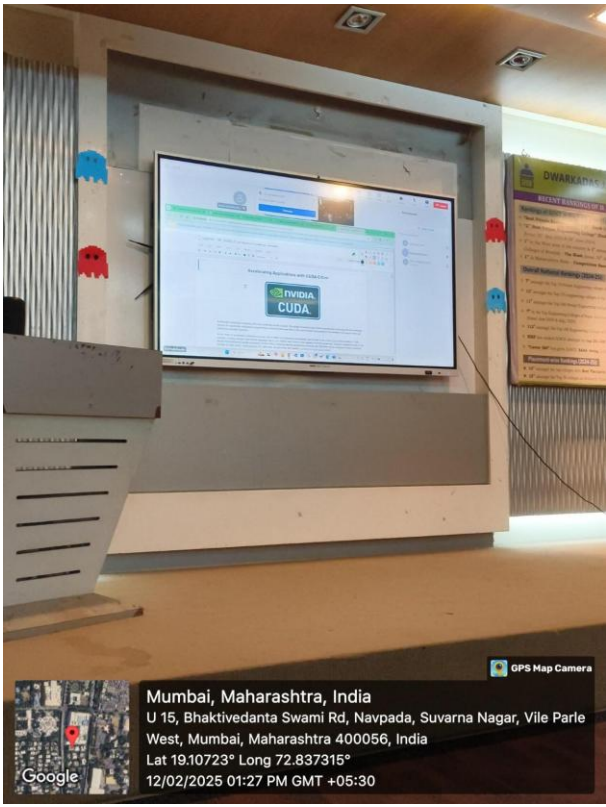
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
✓	✓		✓	✓					✓		✓

Program Specific Outcomes mapped (Please tick the mapped PSOs):

PSO1	PSO2	PSO3	PSO4
✓			



Department of Computer Science & Engineering (Data Science)



The Speaker providing an overview of the session

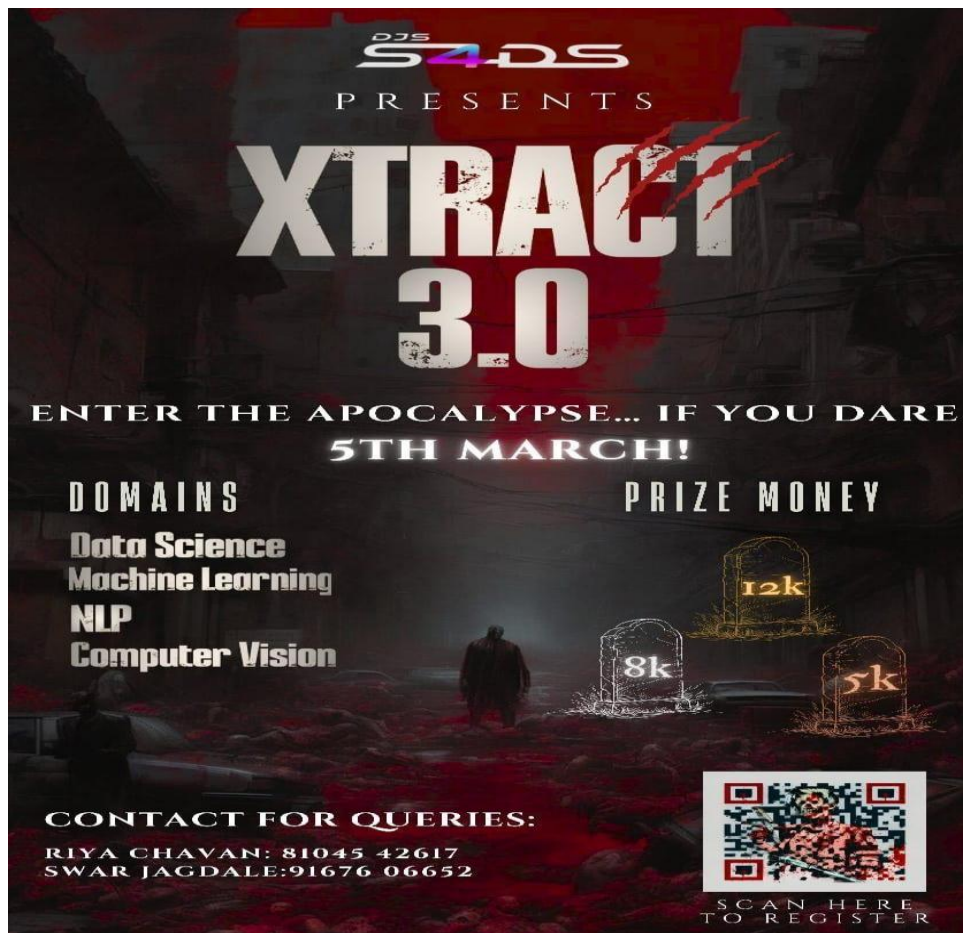
Dr. Nilesh Marathe  
(Faculty coordinator)



Students engaging in the Guest Session

Dr. Kriti Srivastava  
(Head of Department)

Department of Computer Science &amp; Engineering (Data Science)

**Xtract 3.0**Date of the event: 5<sup>th</sup> March, 2025 Mode: Offline

Participants: 84

Objectives of the activity:

- To provide a platform for participants to showcase their skills in Data Science, Machine Learning, NLP, and OpenCV by solving real-world problems.
- To encourage rapid problem-solving and innovative thinking within a limited six-hour timeframe.
- To introduce a QR-based challenge system where teams scan codes to unlock new tasks, datasets, or constraints, adding an interactive and dynamic element to the competition.
- To promote collaboration by requiring teams to balance competitiveness with teamwork under pressure.
- To offer an engaging and gamified experience through QR-based mechanics that introduce twists, challenges, and rewards.
- To provide networking opportunities where participants can interact, learn from peers,



Department of Computer Science & Engineering (Data Science)  
and share knowledge across different domains.

Contents:

DJS S4DS and DJS Compute organized XTRACT 3.0, a 6-hour hackathon providing students with a platform to develop and showcase their skills in Data Science, Machine Learning, NLP, OpenCV, and QR-based interactive systems. The event focused on problem-solving, rapid execution, and hands-on application, ensuring participants gained both technical expertise and real-world implementation experience.

The hackathon took place on 5th March, where teams had 6 hours to solve a series of challenges across different domains. The event featured a QR-based challenge system, where teams scanned QR codes to unlock new tasks, datasets, or constraints, adding an interactive and strategic element to the competition. Participants had to solve problems as quickly and efficiently as possible, with the leaderboard updating in real-time based on who completed the challenges first.

At the end of the competition, the top three teams that solved the most challenges in the shortest time were declared the winners, securing a total prize pool of ₹25,000.

Outcomes:

- Hands-on Problem-Solving Experience – Participants gained practical experience in Data Science, Machine Learning, NLP, OpenCV, and QR-based systems, applying their knowledge to solve real-world challenges.
- Efficient Time Management & Decision-Making – With only 6 hours, teams had to prioritize tasks, make quick decisions, and optimize their approaches to complete challenges efficiently.
- Exposure to Gamified Learning – The QR-based challenge system introduced an interactive and strategic element, encouraging participants to adapt dynamically as they unlocked new tasks and constraints.
- Encouragement of Collaboration – Teams had to communicate and strategize effectively under time pressure, reinforcing the importance of teamwork and problem-solving in high-stakes environments.

Program Outcomes mapped (Please tick the mapped POs):

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓

Department of Computer Science & Engineering (Data Science)

Program Specific Outcomes mapped (Please tick the mapped PSOs):

PSO1	PSO2	PSO3	PSO4
✓	✓	✓	

**Photographs:**



Dr. Kriti Srivastava giving her speech during the opening ceremony



Faculty members of CSEDS felicitating the winners of EXTRACT 3.0

Department of Computer Science & Engineering (Data Science)



Faculty members of CSEDS felicitating the 1<sup>st</sup> runner ups of EXTRACT 3.0



Faculty members of CSEDS felicitating the 2<sup>nd</sup> runner ups of EXTRACT 3.0



## Department of Computer Science &amp; Engineering (Data Science)

**Attendance**

Sr. No	Name	SAP ID	Branch	Year
1	Durvi Bangera	60009230130	CSE-DS	SE
2	Supriya Patil	60009230149	CSE-DS	SE
3	Yash Ghogale	60009230134	CSE-DS	SE
4	Omkar P. Bandikatte	60009230009	CSE-DS	SE
5	Yati Rathod	60009230026	CSE-DS	SE
6	Rishit Mahesh	60009230199	CSE-DS	SE
7	Soham Kishor Walam	9987236183	CSE-DS	SE
8	Rhea Sanghvi	60009230023	CSE-DS	SE
9	Krishna Jain	60009230138	CSE-DS	SE
10	Sian Rodrigues	60009230197	CSE-DS	SE
11	Dhruv Chotalia	60017230017	AIML	SE
12	Shreya Padol	60009230150	CSE-DS	SE
13	Vivek Chauhan	60009230029	CSE-DS	SE
14	Zeel Bhadra	60009230058	CSE-DS	SE
15	Daksh	60009230159	CSE-DS	SE
16	Pakshal Jain	60009230198	CSE-DS	SE
17	Jagdish Choudhary	60017230100	AIML	SE
18	Siddhant Chapade	60017230107	AIML	SE
19	Tanmay Pankajkumar Chaudhari	60009230194	CSE-DS	SE
20	Nitish Singh	60009230111	CSE-DS	SE
21	Sharvari Gupte	60009230131	CSE-DS	SE
22	Vyom Gala	60009230161	CSE-DS	SE



## Department of Computer Science &amp; Engineering (Data Science)

23	Nishita Waghela	60009230008	CSE-DS	SE
24	Krishil Parikh	60017230001	AIML	SE
25	Krishna Maisheri	60017230105	AIML	SE
26	Ketan Sunil Gaikwad	60009230010	CSE-DS	SE
27	Prisha Gupta	60009230027	CSE-DS	SE
28	Krutika hebbar	60009230188	CSE-DS	SE
29	Ketaki Joshi	60009230118	CSE-DS	SE
30	Kashish Mandhane	60009230195	CSE-DS	SE
31	Mehika Jhaveri	60009230177	CSE-DS	SE
32	Omkar Haryan	60009230151	CSE-DS	SE
33	Udit	60009230178	CSE-DS	SE
34	Vrushti Kulkarni	60018230094	AI-DS	SE
35	Hitanshu Gala	60003230283	IT	SE
36	Mihir Mashruwala	60009230182	CSE-DS	SE
37	Chaitra Milind Rane	60002231005	EXTC	SE
38	Diya Paghdal	60009230049	CSE-DS	SE
39	Vedant Jogidasani	60009230125	CSE-DS	SE
40	Krish Tanna	60009230022	CSE-DS	SE
41	Dhvani	60009230034	CSE-DS	SE
42	Tanay Tibrewala	60009220217	CSE-DS	TE
43	Naman Raiyani	60009220057	CSE-DS	TE
44	Parna Mishra	60009220201	CSE-DS	TE
45	Neha Ravishankar	60009220181	CSE-DS	TE
46	Ravirajsingh Sodha	60009220059	CSE-DS	TE
47	Maaz Saboowala	60009220099	CSE-DS	TE



## Department of Computer Science &amp; Engineering (Data Science)

48	Sakshi Patel	60009220105	CSE-DS	TE
49	Tej Ghelani	60009220056	CSE-DS	TE
50	Prathmesh Raut	60009220120	CSE-DS	TE
51	Parthh Pradeep Parakh	60009220130	CSE-DS	TE
52	Om Vilas Naik	60009220141	CSE-DS	TE
53	Hiral Barigela	60009230210	CSE-DS	TE
54	Manan Geria	60009220211	CSE-DS	TE
55	Rajat Masanagi	60009220065	CSE-DS	TE
56	Shubhdyot Singh Chadha	60009220197	CSE-DS	TE
57	Shobit Gupta	60009220032	CSE-DS	TE
58	Krish Thakkar	60009230213	CSE-DS	TE
59	Tirth Kamdar	60009220206	CSE-DS	TE
60	Manav Doshi	60009220093	CSE-DS	TE
61	Charmi Panchal	6009220106	CSE-DS	TE
62	Garv Trivedi	60009220047	CSE-DS	TE
63	Arya Mangaonkar	60009220158	CSE-DS	TE
64	Hetvi Joshi	60009220163	CSE-DS	TE
65	Anusha Soral	60009220184	CSE-DS	TE
66	Janhavi Wakade	60009220183	CSE-DS	TE
67	Akshay Jha	60009220103	CSE-DS	TE
68	Jinit Jasani	60009230203	CSE-DS	TE
69	Ronit Mehta	60009230207	CSE-DS	TE
70	Ankush Pandey	60009230211	CSE-DS	TE
71	Hitarth Bhatt	60009220209	CSE-DS	TE
72	Atharva Wakhare	60009220038	CSE-DS	TE



## Department of Computer Science &amp; Engineering (Data Science)

73	Aniket Waghela	60009220033	CSE-DS	TE
74	Deep Pandharkar	60009220220	CSE-DS	TE
75	Amod Joshi	6009220110	CSE-DS	TE
76	Ronil Shah	60009210082	CSE-DS	TE
77	Richa Patel	60009230202	CSE-DS	TE
78	Harshal Loya	60009220218	CSE-DS	TE
79	Jash chauhan	60009220051	CSE-DS	TE
80	Dhruvi Shah	60009220102	CSE-DS	TE
81	Umang Prajapati	60009230205	CSE-DS	TE
82	Paritosh Shukla	60009220023	CSE-DS	TE
83	Het Rathod	60009230206	CSE-DS	TE
84	Kaivalya Kulkarni	60009220198	CSE-DS	TE

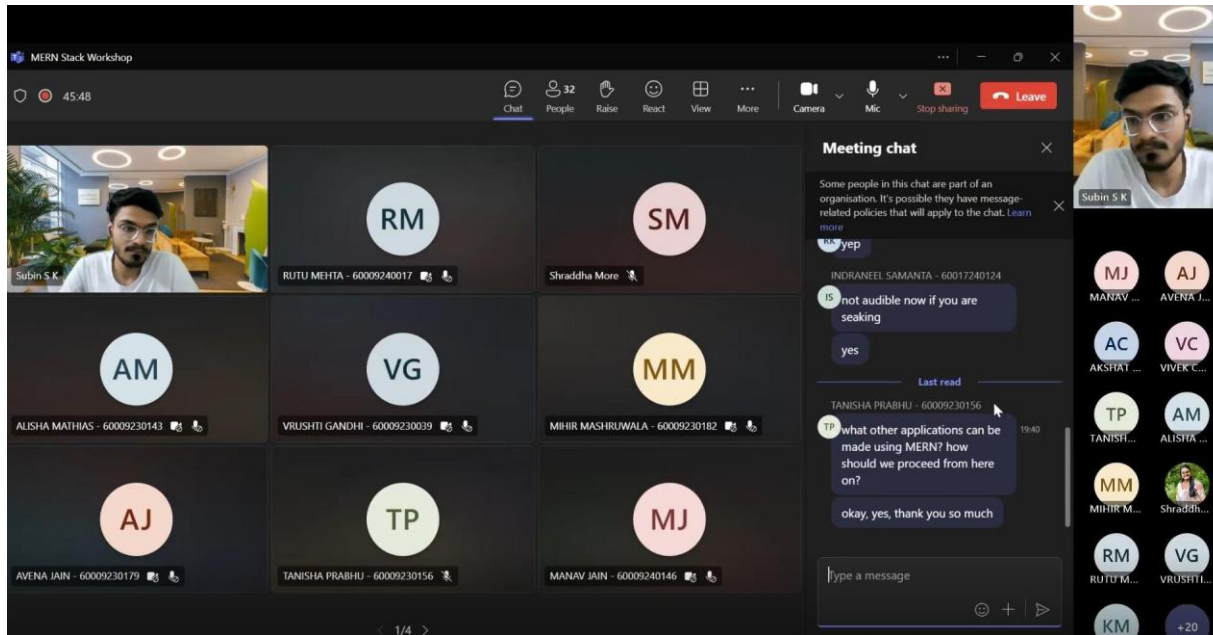
Faculty Coordinator

(Prof. Shruti Mathur)

Head of the Department

(Dr. Kriti Srivastava)

## MERN Stack Webinar



Date of the event: 8<sup>th</sup> and 9<sup>th</sup> March, 2025 Mode: Online

Participants: 37

Objectives of the activity:

- To introduce students to full-stack web development using the MERN stack.
- To demonstrate the process of building a CRUD (Create, Read, Update, Delete) web application from scratch.
- To encourage hands-on development experience using MongoDB, Express, React, and Node.js along with API testing through Postman.
- To help students understand real-world project structure by developing a Todo List web application.
- To provide exposure to Next.js as a modern React framework for production-ready apps.

Contents:

DJS-S4DS successfully organized a 2-day online MERN Stack Workshop on March 8 and 9, 2025. The workshop was aimed at introducing second-year students and DJS-S4DS members to the fundamentals of full-stack web development.

The session was led by Speaker: Subin S K, a seasoned Full-Stack Developer, who guided the students through the development of a Todo List CRUD Web Application using the MERN



Department of Computer Science & Engineering (Data Science)

stack (MongoDB, Express.js, React.js/Next.js, and Node.js). The workshop also featured the use of Postman for API testing and validation.

The workshop provided participants with practical exposure to working with databases, building REST APIs, and integrating frontend and backend components effectively. Students were able to follow along in real time, making the experience highly interactive and productive.

The workshop was free for all second-year students and DJS-S4DS members, allowing wider participation and equipping students with industry-relevant skills.

Outcomes:

- Hands-on Full-Stack Experience – Students gained a solid foundation in developing full-stack applications using the MERN stack.
- Understanding of CRUD Operations – Participants successfully implemented a functional Todo List app performing Create, Read, Update, and Delete operations.
- Exposure to Modern Frameworks – Students worked with modern tools like Next.js and Postman, enhancing their knowledge beyond the basic React ecosystem.
- Interactive Learning – The session structure allowed students to ask questions, clarify doubts, and learn directly from an industry expert.
- Accessibility – Free access ensured inclusive participation, encouraging more students to explore full-stack development.

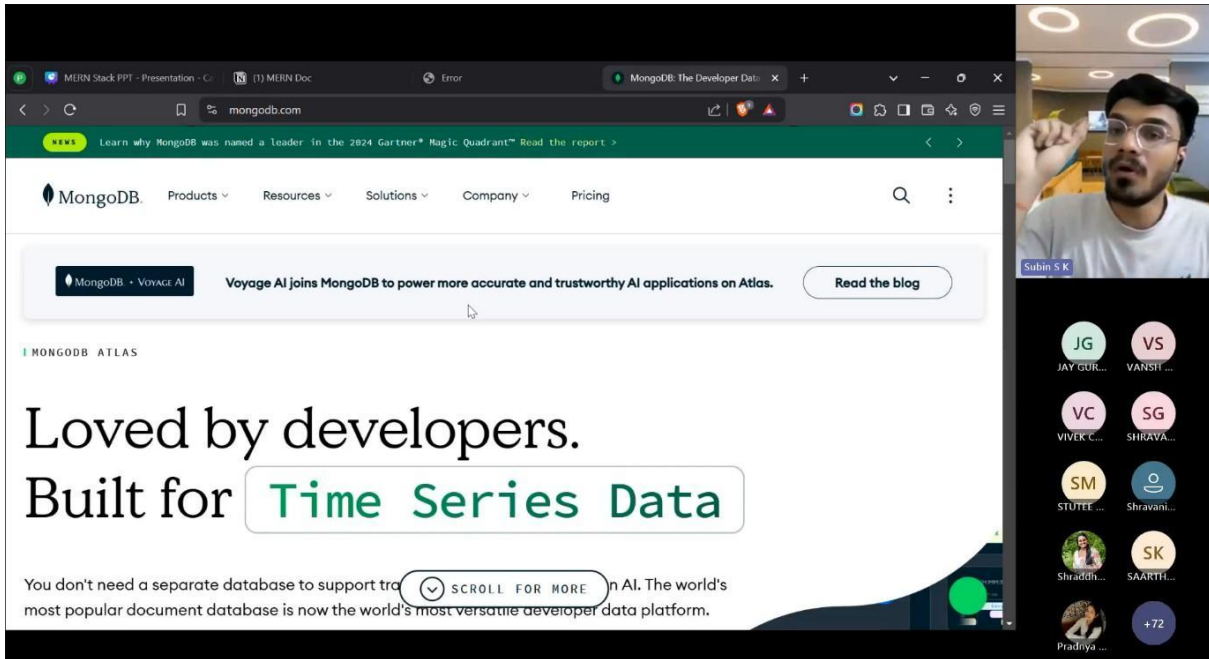
Program Outcomes mapped (Please tick the mapped POs):

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
✓	✓		✓	✓				✓			✓

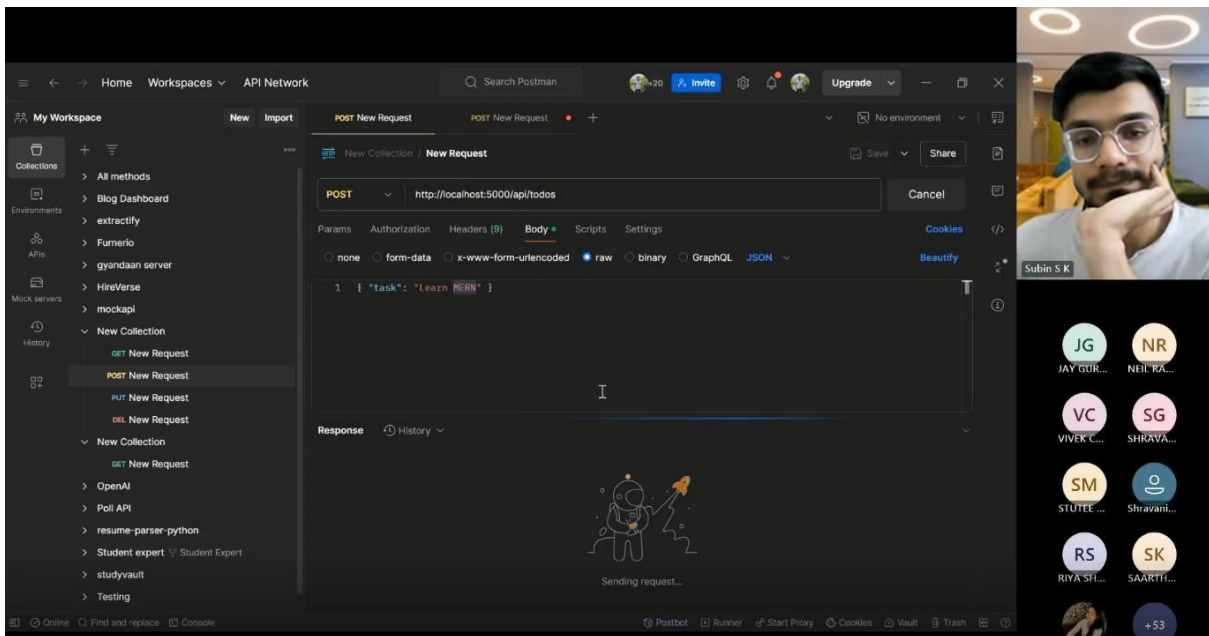
Program Specific Outcomes mapped (Please tick the mapped PSOs):

PSO1	PSO2	PSO3	PSO4
✓			

## Photographs:

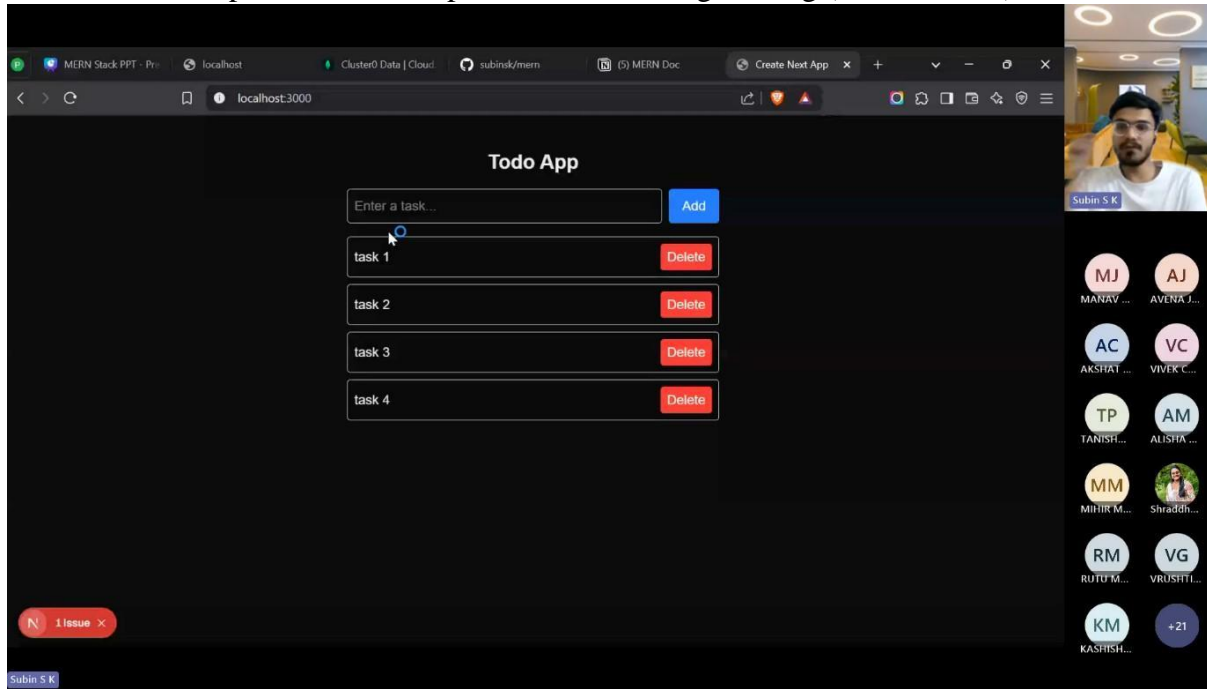


Speaker Explaining how to connect MongoDB – Day 1

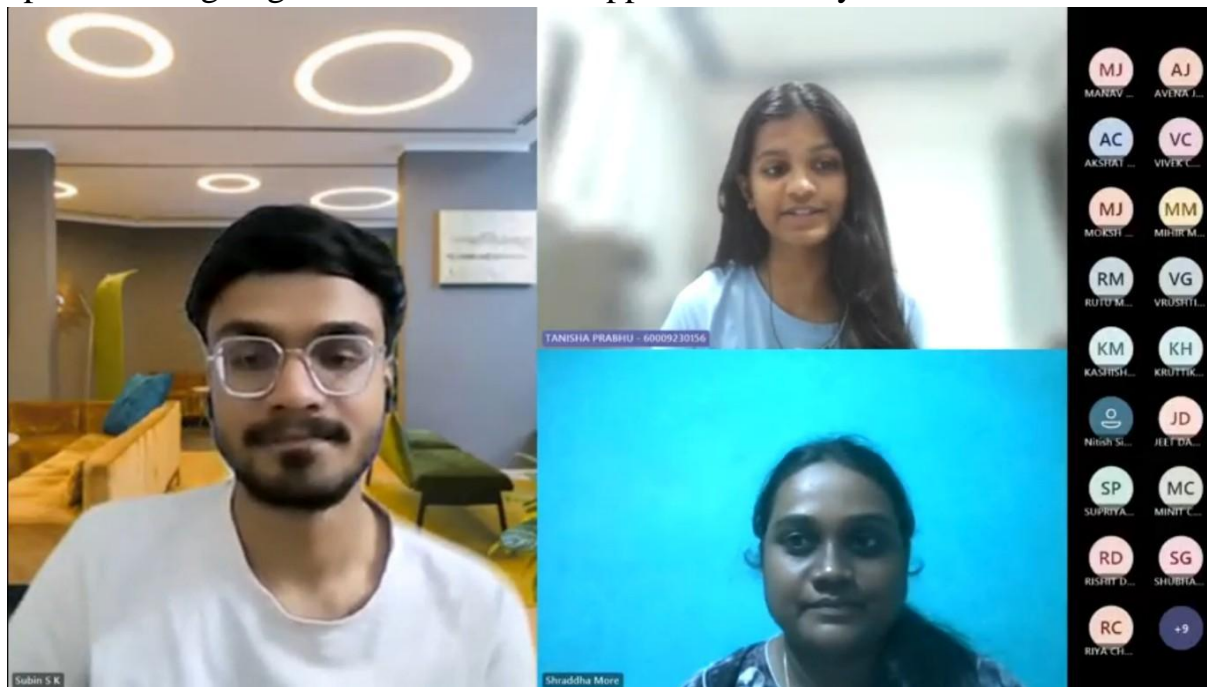


Speaker Guiding with Postman API – Day 1

Department of Computer Science & Engineering (Data Science)



Speaker Designing the Frontend of the application – Day 2



Concluding the 2 Day Webinar – Day 2

Department of Computer Science & Engineering (Data Science)  
Attendance Report

Sr. No	NAME	SAP ID	YEAR
1	Saket Sandip Ambatkar	60009240224	First Year
2	Ruchit Rathi	60019240050	First Year
3	Manthan	60009240108	First Year
4	Arnav Gawandi	60009240211	First Year
5	Vidit Jain	60009240230	First Year
6	Sakshi Shirke	60009240139	First Year
7	Marmik Shah	60009240056	First Year
8	Stuti	60009240279	First Year
9	Namya Puthran	60009240214	First Year
10	Indraneel Samanta	60017240124	First Year
11	Yash Doks	60009240073	First Year
12	Aryanreddy Nalload	60009240257	First Year
13	Vihaan Raut	60009240244	First Year
14	shravani baraskar	60009240200	First Year
15	Rutvi Sanura	60009240240	First Year
16	Vraj Ved	60009240054	First Year
17	Jay Guri	60009230141	Second Year
18	Rohit Samant	60005240166	First Year
19	Nacheeket Shah	60009240265	First Year
20	Dhruvin shah	60009230160	Second Year
21	Avena Jain	60009230179	Second Year
22	Mohit Kankaria	60009240172	First Year
23	Toyam Darshit Shah	60004240028	First Year
24	Trish Shah	60009240208	First Year
25	Varun Danturi	60002240145	First Year
26	Harsh Rathod	60009230144	Second Year
27	Rhushikesh Kadam	60009240134	First Year
28	Keval Vipul Shah	60009240252	First Year



## Department of Computer Science &amp; Engineering (Data Science)

29	Vedant Gadge	60009230120	Second Year
30	Anshul Gupta	60009240270	First Year
31	Rom Patel	60009240019	Second Year
32	Ebrahim Gamdiwala	60009230164	Second Year
33	Moksh Jain	60009240022	Second Year
34	Bhargavi Naik	60009230133	Second Year
35	YUG Doshi	60009240066	First Year
36	Tanmay Pankajkumar Chaudhari	60009230194	Second Year
37	Hash Shah	60009240266	First Year

Faculty Coordinator

(Prof. Shruti Mathur)

Head of the Department

(Dr. Kriti Srivastava)



### **DJS Sanshodhan - Project Poster Competition 2025**

Date of the event: 27<sup>th</sup> March, 2025

Venue: 5<sup>th</sup> Floor, DJ Sanghvi College of Engineering Participants: 45

Objectives of the activity:

- To provide a platform for engineering students to showcase their innovative projects and research.
- To encourage interdisciplinary learning and knowledge exchange among students.

Contents:

DJS Sanshodhan, held on 27<sup>th</sup> March 2025 at DJ Sanghvi College of Engineering, was a Project Poster Competition that provided an excellent platform for engineering students from the 2nd, 3rd, and final year to exhibit their technical projects. Participants showcased their final year projects, IPD projects, as well as hackathon and personal projects, demonstrating their research capabilities, innovation, and technical expertise. The evaluation process was based on five key criteria: Content & Research Depth, Visual Design & Aesthetics, Methodology & Innovation, Presentation & Communication, and Impact & Practical Application. The event also featured interactive sessions where faculty members and industry experts provided valuable feedback, helping participants refine their ideas and enhance their project execution.

Outcomes:

- Enhanced research and presentation skills among participants.
- Encouragement of innovation and problem-solving approaches in engineering projects.



Program Outcomes mapped (Please tick the mapped POs):

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Program Specific Outcomes mapped (Please tick the mapped PSOs):

PSO1	PSO2	PSO3	PSO4
✓		✓	

Photographs (with captions)



1st Prize given to AI Driven Legal argument generator: Tanisha, Dhawal, Kaushik from final year (Major project under Prof. Shruti Mathur)



2nd Prize given to Construction of chemical Compounds: Shobhit, Manan, Maaz from Third Year (IPD project under Prof. Kanchan Dabre)



3rd Prize given to OOPS!IDidntStudy: Last-minute Study Platform: Kashish, Megh, Ketan from Second Year (under DJSCompute).

Total Number of Attendees : 45

SR. NO.	Name	SAP	Year
1	Smayan Kulkarni	60009230142	SY
2	Shobit Gupta	60009220032	TY
3	Riya Shah	60009230017	SY
4	Keval shah	60009220061	TY
5	Kashish Mandhane	60009230195	SY
6	Abhishek Sinha	60009210114	BE
7	Ankush Pandey	60009230211	TY
8	Chaahat Singh	60009230186	SY
9	Vivek Nair	60009220127	TY
10	Om Uskaikar	60009210189	BE
11	Virum Ranka	60009210165	BE
12	Manan Geria	60009220211	TY
13	Stutee Mehta	60009230005	SY
14	Parthh Pradeep Parakhh	60009220130	TY
15	Megh Dave	60009230176	SY



16	Mehek Jain	60009220178	BE
17	Jinit Jasani	60009230203	TY
18	Aayush Chaudhari	60009230140	SY
19	Saumya Desai	60009220112	TY
20	Bhuvi Ghosh	60009210191	BE
21	Dwisha Shah	60009210174	BE
22	Maaz Saboowala	60009220099	TY
23	Vyom Gala	60009230161	SY
24	Rajat Masanagi	60009220065	TY
25	Ketan Gaikwad	60009230010	SY
26	Aryan Surve	60009220079	BE
27	Rishi Ghodawat	60009230204	TY
28	Aagnya Mistry	60009230013	SY
29	Suyash Konduskar	60009220109	TY
30	Mihir Randive	60009210192	BE
31	Sowmya Dadheech	60009210163	BE
32	Yati Rathod	60009230026	SY
33	Sayantana Mukherjee	60009220131	TY
34	Sushrut Mehta	60009210110	BE
35	Ronit Mehta	60009230207	TY
36	Kabir Mathur	60009230137	SY
37	Jay Guri	60009230141	SY
38	Akshat Singh	60009230201	SY
39	Harshil Bhanushali	60009230069	SY
40	Aishwarya Deshmukh	60009230154	SY
41	Dhaval Jain	60009210091	BE
42	Tanisha Harde	60009210117	BE
43	Kaushik Patelia	60009210108	BE
44	Aarya Kamdar	60009210034	BE
45	Dhruv Jain	60009210209	BE

Faculty Coordinator

(Prof. Shruti Mathur)

Head of the Department

(Dr. Kriti Srivastava)