DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

DEPARTMENTAL

ACTIVITIES

&

ACHIEVEMENTS

REPORT

(AY 2021 – 2022)

Mrs. Kanchan Dabre   **Dr. Kriti Srivastava**
  (Prepared By)   **(I/c HOD, CSE -DS)**

PLOT NO.U-15, JUHU SCHEME, BHAKTIVEDANTA SWAMI MARG, VILE PARLE (WEST), MUMBAI-400 056
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VISION

To nurture and develop skilled professionals in the field of Computer Science and Engineering with the focus on Data Science to enable data driven problem solving in all walks of life.

MISSION

1) To strive for academic excellence by inculcating a lifelong learning culture in the field of Computer Science and Engineering.

2) To prepare skilled engineers, trained in modern tools and techniques of Data Science.

3) To nurture responsible professionals aware of Data Ethics in computation.

4) To foster research work in the area of Data Science and allied areas, leading to quality decision-making.

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Department of Computer Science and Engineering (Data Science)

PROGRAMME OUTCOMES (POs)

PO1: To apply knowledge of mathematics, science and engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: To identify and formulate, research literature and analyze complex engineering problems resulting in substantial conclusions using principles of mathematics, natural sciences and engineering sciences.

PO3: To design solutions of complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

PO4: To use research based knowledge and research methods including design of experiments, analysis and interpretation of data synthesis of information to provide valid conclusions.

PO5: To create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: To apply reasoning informed by contextual knowledge to assess societal, health,safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

PO7: To understand the impact of professional engineering solutions in the societal and Environmental context and demonstrate knowledge and need for sustainable development. PO8: To apply ethical principles and further to commit to professional ethics andresponsibilities and norms of engineering practice.

PO9: To function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.

PO10: To communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

PO11: To demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: To recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

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Department of Computer Science and Engineering (Data Science)

ADMINISTRATIVE RESPONSIBILTIES
Academic Year 2021-22

Dr. Kriti Srivastava **Computer Science and Engineering (Data Science) Department In charge, Head of Department**	
Dr. Kriti Srivastava **DJS S4DS Committee (Branch Counsellor)**	Dr. Kriti Srivastava **DJS Compute Club (Faculty Advisor)**
Prof. Kanchan Dabre **Exam Coordinator**	Prof. Pradnya Saval **Time-Table Co-ordinator**
Prof. Kanchan Dabre **Project Coordinator**	Dr. Kriti Srivastava **NPTEL (Online Certification Courses)**
Prof. Pooja Vartak **Internship and Placement Coordinator**	Prof. Pradnya Saval **Mentor Co-ordinator**
Prof. Pooja Vartak **(Dept. Co-ordinator) NAAC Coordinator**	Prof. Pooja Vartak **Class (In-charges)**
Prof. Pooja Vartak **Dept. Library Co-ordinator**	Prof. Pooja Vartak **Maintenance Cordinator**

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ADMINISTRATIVE RESPONSIBILTIES
Academic Year 2022-23

Dr. Kriti Srivastava **Computer Science and Engineering (Data Science) Department In charge, Head of Department**	
Dr. Kriti Srivastava **DJS S4DS Committee (Branch Counsellor)**	Dr. Kriti Srivastava **DJS Compute Club (Faculty Advisor)**
Prof. Pradnya Saval **DJS S4DS Committee (Treasurer)**	Prof. Kanchan Dabre **Exam Coordinator**
Prof. Kanchan Dabre **Project Coordinator**	Prof. Pradnya Saval **Time-Table Co-ordinator**
Prof. Pooja Vartak **Internship and Placement Coordinator**	Dr. Kriti Srivastava **NPTEL (Online Certification Courses)**
Prof. Pooja Vartak **Maintenance Cordinator**	Prof. Pradnya Saval **Mentor Co-ordinator**
Prof. Pooja Vartak **Dept. Library Co-ordinator**	Prof. Pooja Vartak **NAAC Coordinator**
Class (In-charges) TE (Sem V-VI): Prof. Pooja Vartak SE-Div: A (Sem III-IV): Prof. Kanchan D. SE-Div: B (Sem III-IV): Prof. Pradnya S.	

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Department of Computer Science and Engineering (Data Science)

DJS-S4DS

Committee members for AY- 2021-22:

Faculty Advisor
Kriti Srivastava

CHAIRPERSON
Vighnesh Sriram Iyer

VICE CHAIRPERSON (TECHNICAL)	VICE CHAIRPERSON (ADMIN)
Arithant Sheth	Tanishka Kothari

TREASURER
Saksham Jha

PUBLICITY HEAD	CREATIVES HEAD	LOGISTICS HEAD
Shrey Sumaria	Dhruv Salot	Devansh Shah
Himanshu Kakwani	Jay Jain	Ankit Ladva

EVENTS HEAD	MARKETING HEAD	EDITORIAL HEAD
Yogesh Maheshwari	Hardik Gupta	Parth Kapadia
Bhumika Sachdev	Manan Singhvi	Dhruvi Shah

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Faculty Advisor
Kriti Srivastava

TEAM LEAD
Jash Shah

Name of the Teams	Name of the Team Members
EVENTS GROUP	Varun Gandhi Jay Bhanushali Prachet Shah
EDITORIAL GROUP	Dhruvi Shah Daksh Dholakia
SOCIAL MEDIA AND PUBLICITY GROUP	Aryan Mehta Jainam Rajput
LOGISTICS GROUP	Stavan Shah Kush Patel

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Paper Published in National / International Conference

1. S. Sanghavi, P. Vaid, P. Rathod and K. Srivastava, "SpectroTemporalNet: Automated Sleep Stage Scoring with Stacked Generalization," 2021 Second International Conference on Electronics and Sustainable Communication Systems (ICESC), 2021, pp. 1256-1263, doi: 10.1109/ICESC51422.2021.9532640.

2. A. Halgekar, A. Chouhan, I. Khetan, J. Bhatia, N. Shah and K. Srivastava, "Internet of Behavior (IoB): A Survey," 2021 5th International Conference on Information Systems and Computer Networks (ISCON), 2021, pp. 1-6, doi: 10.1109/ISCON52037.2021.9702450.

3. R. Rajeswari, H. Raja, K. Srivastava, G. S. Sajja, M. K. Chakravarthi and R. Rajan, "Technologies for Systematic Procedure Generation of Enhanced Wound Care Devices Through Discriminative Intelligence," 2021 5th International Conference on Electronics, Communication and Aerospace Technology (ICECA), 2021, pp. 839-844, doi: 10.1109/ICECA52323.2021.9675886.

4. B. Arunadevi, D. Saravanan, K. Villallba-Condori, K. Srivastava, M. K. Chakravarthi and R. Rajan, "Orthographic Comparison Revealed by Ambient Sentiment Classification," 2021 5th International Conference on Electronics, Communication and Aerospace Technology (ICECA), 2021, pp. 834-838, doi: 10.1109/ICECA52323.2021.9675995.

5. N. Parekh, B. Dave, R. Shah and K. Srivastava, "Automatic Sleep Stage Scoring on Raw Single-Channel EEG: A comparative analysis of CNN Architectures," *2021 Fourth International Conference on Electrical, Computer and Communication Technologies (ICECCT)*, 2021, pp. 1-8, doi: 10.1109/ICECCT52121.2021.9616895.

6. R. Kadakia, P. Kalkotwar, P. Jhaveri, R. Patanwadia and K. Srivastava, "Comparative Analysis of Micro Expression Recognition using Deep Learning and Transfer Learning," 2021 2nd Global Conference for Advancement in Technology (GCAT), 2021, pp. 1-7, doi: 10.1109/GCAT52182.2021.9587731.

7. K. Srivastava, "GQNN: Greedy Quanvo;ution Neural Network", 3rd International Conference on Image Processing and Capsule Network ICIPCN-2022)

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Interaction of Faculty with Outside World

1. Dr. Kriti Srivastava was an organising member of 6th International conference on Data Management, Analytics and Innovation (14th - 16th Jan 2022)

2. Prof. Kanchan Dabre was a Research Paper reviewer at International conferrence on Computational Intelligence and smart communication (ICCISC-2022) at School of Computer Science and Engineering, Dev Bhoomi Uttarakhand University, Dehradhun, Uttarakhand on 11and 12th june 2022

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Department of Computer Science and Engineering (Data Science)

Seminars/Workshops/Conference/FDP/STTP/Expert Talk Organized in the Department

1. Dr. Kriti Srivastava organized an expert Talk on Machine Learning for TE Division: A/B by Mr. Bhavin Gandhi, Director and Data Analytics at Shaadi.com on 1.2.2020

2. Dr. Kriti Srivastava arranged a online seminar on Hackathon Prepration was organized for FE-CES-DS by Mr. Govind Thakur, Mr. Aryan Chouhan, Mr. Aayush Halgekar, Mr. Yatharth Vyas, Mr. Punit Lodha and Mr. Manav Jain (BE Comps Students of DJSCE) on

3. Dr. Kriti Srivastava organized a Race4Ace event for first year Data Science students on 12.12.2021

4. A Student branch of DJS S4DS inaugural function was organized under the guidance of Dr.Kriti Srivastava, was inaugurated by Dr. Amol Goje, Dr. Neha Sharma, Dr. Hari Vasudevan, President of S4DS, Secretary of S4DS, Principal DJSCE on 20.12.2021

5. Webinar on Introduction to Data Science and ML by Mr. Bhavishya Pandit, Associate Data Scientist at Rakuten on 10.01.2022

6. Kanchan Dabre was Instructor for Add on Mathematical Modelling course (Nov-Dec 2021), organized for UCOE/SE-AIML covering Corelation, Annova Test for buiding Stats Foundation

7. Pooja Vartak organized Online AWS Academy, Cloud Foundation Workshop for all branch students of DJSCE between07.02.2022 to 18.02.2022

9. Kanchan Dabre organized Online AWS Academy, Machine Learning Foundations workshop for all branch students of DJSCE between 21.02.2022 to 04.03.2022

10. Dr. Kriti Srivastava organized Webinar on Natural Language Processing on 15th March 2022of Mr. Maulik Shah, ML Engineer at JAVIS for Data science students

11. Dr. Kriti Srivastava organized National level SKYJACK: Data Science Treasure Hunt online event on 3rd April 2022, 565 students have participated this event with zeal.

12. Expert Talk on Recommender System was arraged on 21st April 2022for S.E. Data Science students by Mr. Bhavik Gandhi, VP, Data Science and Product Engineering at Inspo, Canada.

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Department of Computer Science and Engineering (Data Science)

Seminars/Workshops/FDP/STTP/NPTEL/Online Courses attended by Faculty Members

1. Dr. Kriti Srivastava attended ATAL FDP on AI in Banking And Financial Services from 12/07/2021 to 16/07/2021

2. Prof. Kanchan Dabre attended STTP on Stress Management (Online Live FDP) from 13/12/2021 to17/12/2021

3. Prof. Kanchan Dabre attended STTP on Digital Transformation through Industry 4.0 Technologies from 03/01/2022 to 08/01/2022

4. Prof. Pooja Vartak attended STTP on Digital Transformation through Industry 4.0 Technologies from 03/01/2022 to 08/01/2022

5. Prof. Pradnya Saval attended STTP on Digital Transformation through Industry 4.0 Technologies from 03/01/2022 to 08/01/2022

6. Prof. Kanchan Dabre Completed Coursera Course on Advanced Instructional Strategies in the Virtual Classroom from 04/01/2022 to 10/1/2022

7. Prof. Pooja Vartak Completed Coursera Course on Advanced Instructional Strategies in the Virtual Classroom from 04/01/2022 to 10/1/2022

8. Prof. Pradnya Saval Completed Coursera Course on Advanced Instructional Strategies in the Virtual Classroom from 04/01/2021to 10/1/2022

9. Prof. Pradnya Saval Completed Tableau 2020 A-Z: Hands-On Tableau Training for Data Science from 10/01/2022 to 10/01/2022

10. Prof. Pradnya Saval Completed course Complete Data Wrangling & Data Visualization With Python from 21/01/2022 to 27/01/2022

11. Prof. Kanchan Dabre attended FDP Industry Perspective on Cyber Security on 27/01/2022

12. Prof. Pooja Vartak attended FDP Industry Perspective on Cyber Security on 27/01/2022

13. Prof. Pradnya Saval attended FDP Industry Perspective on Cyber Security on 27-01-2022

14. Prof. Pradnya Saval Completed Course o AWS Academy Graduate - AWS Academy Cloud Foundations on 28/01/2022

15. Prof. Pradnya Saval Completed Coursera Course on AI for Everyone from 01-01-2022 to 31.01.2022

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16   Prof. Pooja Vartak Completed Course on AWS Academy Graduate - AWS Academy

      Machine Learning Foundations on 14/02/2022

17   Prof. Kanchan Dabre Completed Course on AWS Academy Graduate - AWS Academy Cloud Foundations on 15/02/2022

18   Prof. Kanchan Dabre Completed Course on AWS Academy Graduate - AWS Academy Machine Learning Foundations on 15/02/2022

19   Prof. Pradnya Saval Completed Coursera Course on AI For Medical Treatment on 02-02-2022

20   Prof. Pradnya Saval Completed Course on AWS Academy Graduate - AWS Academy Machine Learning Foundationsn on 21-02-2022

21   Prof. Pooja Vartak Completed Coursera Course on Intermediate Relational Database and SQL from 23/02/2022 to23/02/2022

22   Prof. Pooja Vartak Completed Coursera Course on Introduction to Structured Query Language (SQL) from 23/01/2022 to 23/02/2022

23   Prof. Pradnya Saval Completed Coursera Course on Data Analysis with R Programming from 23/02/2022

24   Prof. Kanchan Dabre Artificial Intelligence & Data Science from 03/03/2022 to 04/03/2022

25   Dr. Kriti Srivastava   Coursera course on Linear Regression using numpy from 10/03/2022 to10/03/2022

26   Prof. Kanchan Dabre Completed NPTEL Course on Problem Solving With C(12 week) from 20/01/2022 to 23/04/2022

27   Prof. Pooja Vartak Completed NPTEL Course on Problem Solving With C(12 week) from 20/01/2022 to 23/04/2022

28   Prof. Pooja Vartak Faculty Development Programme on Problem Solving With C(12 week) from 20/01/2022 to 23/04/2022

29   Prof. Pradnya Saval   Completed Coursera Course on Front-End Web Development with React from 28.03.2022 to 28.04.2022

30   Prof. Pradnya Saval attended STTP on Cybersecurity and Artificial Intelligence from 06/06/2022 to 11/06/2022

31   Prof. Kanchan Dabre attended FDP on ML-Operations and its applications from

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Shri Vile Parle Kelavani Mandal's
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC Accredited with "A" Grade (CGPA : 3.18)

Department of Computer Science and Engineering (Data Science)
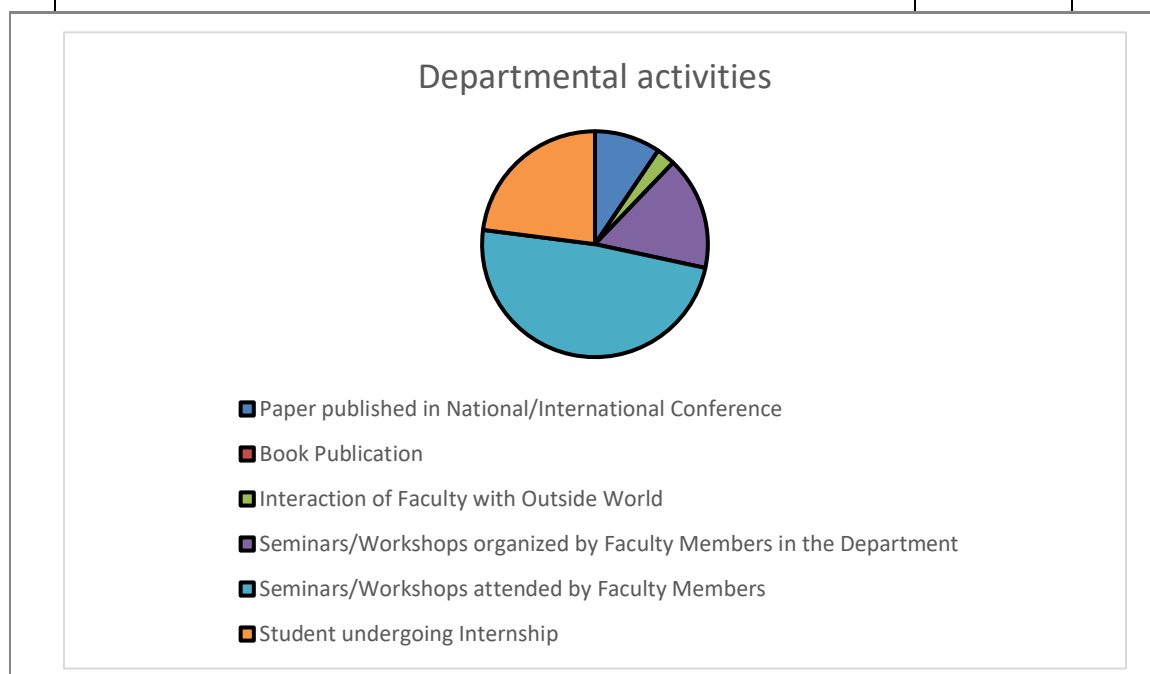
13/06/2022 to 17/06/2022

32   Prof. Pooja Vartak   attended FDP on ML-Operations and its applications from 13/06/2022 to 17/06/2022

33   Prof. Pradnya Saval   attended FDP on ML-Operations and its applications from 13/06/2022 to 17/06/2024

34   Prof. Pradnya Saval   Completed Coursera Course on AI Workflow: Machine Learning, Visual Recognition and NLP on 27.06.2022

35   Prof. Pooja Vartak   Completed Coursera Course on Object Oriented Python course from 29/05/2022 to 29/06/2022

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Department of Computer Science and Engineering (Data Science)

ACTIVITIES IN THE DEPARTMENT (July 2020-June 2021)

Paper published in National/International Conference	07
Book Publication	00
Interaction of Faculty with Outside World	02
Seminars/Workshops organized by Faculty Members in the Department	12
Seminars/Workshops attended by Faculty Members	36
Student undergoing Internship	17
TOTAL	**144**

Departmental activities

- Paper published in National/International Conference
- Book Publication
- Interaction of Faculty with Outside World
- Seminars/Workshops organized by Faculty Members in the Department
- Seminars/Workshops attended by Faculty Members
- Student undergoing Internship

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Department of Computer Science and Engineering (Data Science)

FACULTY ACHIEVEMENTS

1. Prof. Kanchan Dabre Completed NPTEL Course on Problem Solving With C(12 week) from 20/01/2022 to 23/04/2022

2. Prof. Pooja Vartak Completed NPTEL Course on Problem Solving With C(12 week) from 20/01/2022 to 23/04/2022

STUDENTS ACHIEVEMENTS

1. Mr. Prachet Shah, Mr. Akshit Gabhne and Mr. Jay Bhanushali won 3rd Place at UNSCRIPT ROOKIES HACKATHON 2022 on 22-23.01.2022 at Fr. Conceicao Rodrigues College of Engineering

2. Mr. Jay Jain student of Second Year Data Science was winner in 24hrs Hackathon at KJSCE Hack 6.0 organized between 9th to 10th April 2022 by KJCE

STUDENTS INTERNSHIP SUMMARY

Total No of Student: 67

No of Students Completed Internship Program: 17

Name of the companies where students are Doing Internship: - Credence Analytics, Enterprof, OGGN Tech, Proditech, Cyberace Info Vision Pvt Ltd, Feynn Labs, Sparks Foundation, Yogical wellness, Omniflo, Jupyter Stock Brokers

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