

2023

DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT



MCA NEWSLETTER – 2023

2023

EVINCE 2.0



REVEAL THE PRESENCE



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Every year, the Department of Master of Computer Applications releases a newsletter that includes the most recent information on developments in the global computer industry as well as the department's accomplishments.

This publication will offer the standards for ongoing enhancement in the department's overall development. This will act as a way to offer a comprehensive package for expressing the innovative ideas, accomplishments (such technical publications) and relevant academic and research endeavors of professionals and students. This is also a useful tool for staff and incoming student groups when it comes to selecting future activities that will advance their careers.





About The Department



ENVICE 2.0

Reveal The Presence

The MCA program at Dayananda Sagar Academy of Technology & Management is an Autonomous Institute, affiliated with VTU, Belagavi & approved by AICTE, with an intake of 120. The duration of the MCA program is 2 years. The department believes that Innovative Teaching-Learning methods coupled with problem-solving using modern tools help the students enhance their skills & enable them to handle the challenges faced in their professional lives. The department provides quality education with high standards to achieve academic excellence thereby achieving the career goals of the students. Our students have completed MOOCs from various online platforms that have benefitted them in taking industrial internships. Our students are doing extremely well both in academics and extracurricular activities. The department offers various electives in cutting-edge technologies so that student are ready.

Faculty and students are encouraged by the department to present their ideas at national and international conferences and to publish their work in peer-reviewed journals. The department is run by devoted and hardworking faculty members who are assisted by administrative and technical staff. The department's teaching staff is incredibly dedicated to their work and gives the students their all by utilizing cutting-edge teaching and learning techniques. Research is an active endeavour for the faculties. Research projects from faculties are published in a number of reputable, worldwide, peer-reviewed publications. Reputable businesses like Virtusa, TCS, Capgemini, Cognizant, and many more hire MCA graduates.





Vision & Mission of the Institute

Vision:

To strive at creating the institution a center of highest Caliber of learning, so as to create an overall intellectual atmosphere with each deriving strength from the other to the best of engineers, scientists and mathematicians.

Mission:

M1:

To serve its region, state, the nation and globally by preparing students to make meaningful contributions in an increasing complex global society.

M2:

To encourage, reflection on and evaluation of emerging needs and priorities with state of art infrastructure.

M3:

To support research and services establishing enhancements in technical, health, economic, human and cultural development.

M4:

To establish inter disciplinary center of excellence.

M5:

To increase the number of Doctorate holders to promote research culture on campus.

Quality Policy:

Dayananda Sagar Academy of Technology and Management aims at achieving academic excellence through continuous improvement in all spheres of Technical and Management education. In pursuit of excellence cutting-edge and contemporary skills are imparted to the utmost satisfaction of the students and the concerned stakeholders.





Vision & Mission of the Department

Vision:

Nurture Continuous Learning through research and innovations in the field of Computer Science, Technology and Applications, to build competent professionals.

Mission:

M1: Create a learning environment to motivate students to build strong technical skills.

M2: Promote value-based ethical practices in all facets of learning.

M3: Install Entrepreneurial collaborative thinking through structured interventions and industry participation.

Programme Educational Objectives:

PEO 1: Analyse real-life problems, and design computing systems appropriate to their its solutions that are technically sound, economically feasible, and socially acceptable.

PEO 2: Exhibit professionalism, ethical attitude, communication skills, and teamwork in their profession and adapt to current trends by engaging in lifelong learning.

PEO 3: Demonstrate Leadership and Entrepreneurship Skills by incorporating organizational goals.

Programme-Specific Outcomes:

PSO 1: The graduates of the Program will have skills to develop, deploy and maintain applications for desktop, web, mobile, cloud, and cross platforms using modern tools and technologies.

PSO 2: The graduates of the program Analyse the societal needs to provide novel solutions through technological-based research.





From The HOD's Desk

ENVINCE 2.0

Reveal The Presence



I'm delighted to congratulate the Department of Master Computer Applications staff and students on the release of our newsletter, "EVINCE." The department's newsletter, which compiles all of the events that took place in 2023, is a vital tool for increasing public awareness of the successes that the staff and students have achieved. We owe a debt of gratitude to our principle and management for their unwavering inspiration, encouragement, and support in producing this newsletter. I hope that with your encouragement and input, the upcoming issues will develop with better concepts.

Dr. Manjula Sanjay Koti
Professor & Head, MCA Dept.





Faculty Information



Dr. Manjula Sanjay Koti
Professor & Head



Dr. Chitra K
Associate Professor



Prof. Ushasree
Assistant Professor



Prof. Priyanka Mohan
Assistant Professor



**Prof. Diwakara
Vasuman M S**
Assistant Professor



Prof. Harilakshmi
Assistant Professor



Prof. Chetankumari Naik
Assistant Professor



Prof. Priyadarshini S
Assistant Professor



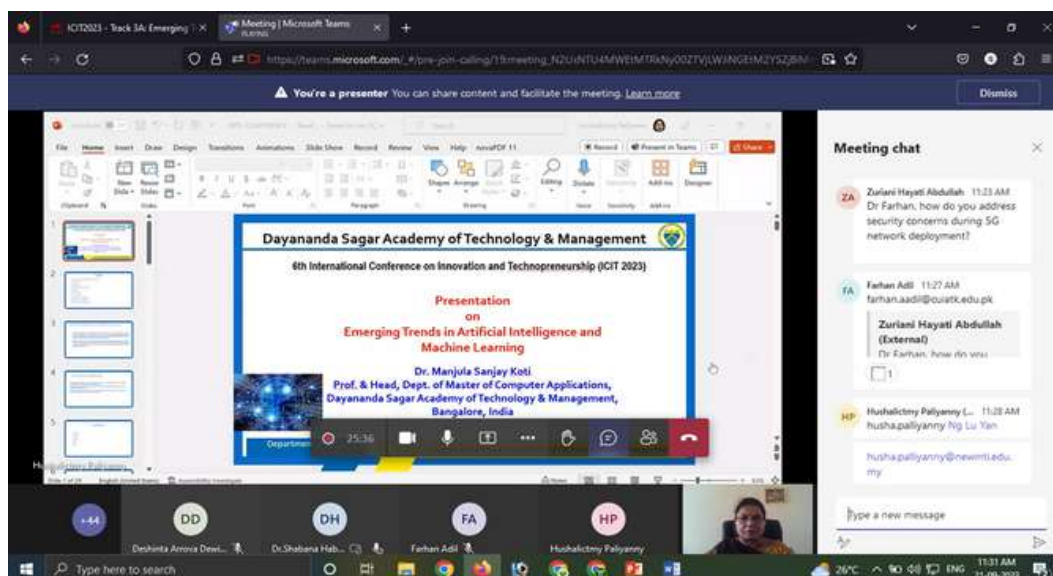


Faculty Achievements

- **Dr. Manjula**, delivered keynote on “Artificial Intelligence and Machine Learning in Health care” organized by Iloilo State University of Fisheries Science and Technology , (IFERP)-Philippines Society held on August 29-30,2023 at Manila, Philippines as Hybrid Conference.



- **Dr. Manjula Sanjay** delivered Keynote speech on “Emerging Trends in Artificial Intelligence and Machine Learning during 6th International Conference on Innovation and Techno Entrepreneurship (ICIT 2023), INTI International University, Malaysia, Sep 21-22, 2023

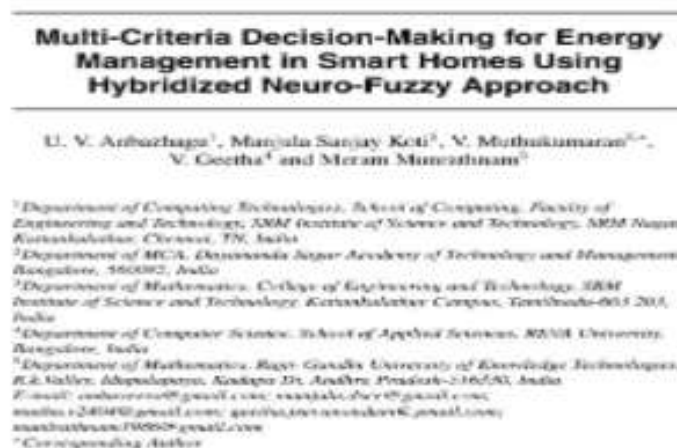


Faculty Achievements

- **Dr. Manjula Sanjay** received Research Funding Amount of Rs.1,00,000/- for the Research Topic “Exploring Gender Equity and Women Empowerment in Malaysia Corporate Sector”.



- **Dr. Manjula Sanjay** published an article in the Journal of “Distributed Generation and Alternative Energy” Indexed in Scopus. Entitled “Multi-Criteria Decision-Making for Energy Management in Smart Homes Using Hybridized Neuro-Fuzzy Approach”.



Received 01 June 2023; Accepted 01 August 2023;
Publication 02 November 2023

Abstract

The necessity for smart energy oversight solutions has arisen in response to the rising popularity of energy-efficient home automation and other energy-saving technologies. Optimizing smart home energy use using multi-criteria decision-making (MCDM) is a proven methodology. However, the procedure

Distributed Generation & Alternative Energy Journal, Vol. 38.3, 83-100.
doi: 10.11052/dgaej.2136-3306.38.3.4
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Faculty Achievements

- **Dr. Manjula Sanjay** has published a patent on “Deep learning-based Patient Monitoring system using IOT for Healthcare” (App.No. 202341013013).

Application Details	
APPLICATION NUMBER	202341013013
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/02/2023
APPLICANT NAME	1. Dr. Manjula Sanjay Kulk, Dayananda Sagar Academy of Technology and Management 2. Mr. A. Sathesh Kumar, REVA University 3. REVA University
TITLE OF INVENTION	Deep Learning-based Patient Monitoring System Using IoT for Healthcare
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	manjula.ds@gmail.com
ADDITIONAL E-MAIL (As Per Record)	
E-MAIL (UPDATED ONLINE)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (As Per Record)	17/03/2023

- **Dr. Manjula Sanjay** delivered Keynote Address on “A Hybrid Security Framework using IOT for Healthcare System”, at KE College of Arts and Science, Coimbatore on April 13, 2023.



- **Dr. Chitra K** has received Educator Training Certificate on Alteryx Software.





Faculty Achievements

- **Dr. Chitra K** has received a certificate for Block Chain Technology from CDAC.



- **Ushasree R** has completed a silver certificate course on Cyber Security Essentials TOT.



- **Ushasree R** has completed a gold certificate course on Cyber Security Essentials TOT.





Faculty Achievements

- **Ushasree R**, has published a patent on “Image Registration Techniques for Accurate Diagnosis of Breast Cancer by Utilizing Radiology”, (App.No 202341011803).



- **Ushasree R**, has published a paper in the International Conference IEEE Xplore on GAN, CNN and ELM Based Breast Cancer Detection.



- **Ushasree R**, participated in the FDP on “Cloud Infrastructure(AWS)” Bengaluru, held on August 21-25,2023.





Faculty Achievements

- **Shreedhara N Hegde**, completed a certification course on Programming Fundamentals using python – part2.



- **Shreedhara N Hegde**, completed a certification course on Basics of Python.



- **Shreedhara N Hegde**, completed a certification course on Introduction to Unix.





Reveal The Presence

A course completion certificate from Infosys Springboard. The certificate is awarded to Priyanka Mohan for successfully completing the course "Programming Fundamentals using Python - Part 2" on July 19, 2023. The certificate features the Infosys logo at the top, a QR code on the left, and the signature of Ritesh Arora, Senior Vice President and Head of Education, Training and Assessment (ETA), at the bottom right. The text "Congratulations! You make us proud!" is written in red.





Faculty Achievements

- **Diwakara Vasuman M S**, has participated in the 5 Days Live International Faculty Development Program on Applications on Business Analytics, organized by Ramaiah Institute of Technology in Collaboration with ExcelR Edtech Pvt. Ltd.



- **Diwakara Vasuman M S**, has participated in the 5 days' Workshop on "Research and Publication Ethics and Strategies." organized by Srinivas University Mangalore.



- **Diwakara Vasuman M S**, participated in 10 Hours National Faculty Development Program on Learning for NLP and Computer Vision organized by NIST Institute of Science and Technology (Autonomous), Berhampur in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 25th Oct to 31st Oct 2023.





Faculty Achievements

- **Diwakara Vasuman M S**, has participated in One Week National Level Virtual Faculty Development Programme (FDP) on "Artificial Intelligence" organized by Dept. of Computer Science & Application in association with IQAC, Christ Academy Institute for Advance Studies, from Nov 20th to 24th, 2023.



- **Diwakara Vasuman M S**, has participated in the Nation Level Online Faculty Development Program on "Deep Learning Case Studies: Exploring Cutting Edge Applications" organized by Christ (Deemed to be University) in association with TATA CONSULTANCY SERVICE from 25th Oct 2023 to 31 Oct 2023.





Faculty Achievements

- **Diwakara Vasuman M S**, has participated in the National Faculty Development Program on ChatGPT and Prompt Engineering organized by Bharati Vidyapeeth College of Engineering - Navi Mumbai, NRI Institute of Technology - Vijayawada and Sreenidhi Institute of Science & Technology - Hyderabad in Collaboration with ExcelR Edtech Pvt. Ltd.



- **Diwakara Vasuman M S**, has participated in the 7 Days Online International Faculty Development Program on "Latest Trend and Techniques in Software Engineering: An Industry Perspective".





Faculty Research Publications

Dr. Manjula Sanjay Koti:

- Deep Learning Based Hybrid Network Architecture to Diagnose IoT Sensor Signal in Healthcare System. (Journal of Machine Computing). **(Q2)**
- Implementation of deep learning algorithm to analyze the effects of diabetics on cardiovascular diseases. **(Q3)**
- Multi – Criteria Decision making for energy management in smart homes using hybridized neuro – fuzzy approach (Distributed Generation and Alternative Energy). **(Q1)**
- Lung Cancer Diagnosis based on weighted convolutional neural network using gene data expression. **(Q1)**

Ms. Usha Shree R

- GAN, CNN and ELM Based Breast Cancer Detection **(International Conference on IT - IEEE Xplore)**.
- IOT cloud enabled health care monitoring system: Implementation of patient's alert system through smart device prediction using Artificial intelligence **(IEEE Xplore)**.

Patents

- **Dr. Manjula Sanjay** has published a patent on “Deep learning-based Patient Monitoring system using IOT for Healthcare” (App.No. 202341013013).
- **Ushasree R** has published a patent on “Image Registration Techniques for Accurate Diagnosis of Breast Cancer by Utilizing Radiology”, (App.No 202341011803).
- **Dr. Chitra K** has published a patent on “Cloud Computing and Edge Computing paradigms for Massive access in a cell-free Massive MIMO-based Internet Of things (IOT)” (App.No.202241061734)
- **Dr. Chitra K** has published a patent on “A Green 6G network for pervasive Communication: An Experimental Analysis” (App.No. 202341068481)





Students Paper Publication

- **Pruthvi N**, "International Journal of Advance Research and Innovative Ideas in Education", Flood Prediction Using Machine Learning", (ISBN/ISSN: 2395-4396).
- **Akshay N**, "International Journal of Advance Research and Innovative Ideas in Education", Salinity in drinking water is analyzed by a TDS Sensor and Machine Learning, (ISBN/ISSN: 2395-4396).
- **Sagar V P**, "International Journal of Advance Research and Innovative Ideas in Education", Artificial Intelligence-Based Chatbot for Mental health July 2023, (ISBN/ISSN: 2395-4396).
- **Nithin Kumar G R**, "International Journal of Advance Research and Innovative Ideas in Education", Information security in cloud service with third party administration, (ISBN/ISSN: 2395-4396).
- **Anand Kaman**, "International Journal of Advance Research and Innovative Ideas in Education", Human Activity Recognition Using TensorFlow, (ISBN/ISSN: 2395-4396).
- **N Vamshi Krishna**, "International Journal of Advance Research and Innovative Ideas in Education", Detection of cyber-attacks using Machine learning, (ISBN/ISSN: 2395-4396).
- **Bhalke Nitesh Ganesh**, "International Journal of Advance Research and Innovative Ideas in Education", OTT Streaming Service, (ISBN/ISSN: 2395-4396).
- **Aritra Dutta**, "International Journal of Advance Research and Innovative Ideas in Education", Developing a recommendation system for personalized nutrition plan,(ISBN/ISSN: 2395-4396).
- **Rahul Kumar**, "International Journal of Advance Research and Innovative Ideas in Education", Video Steganography, (ISBN/ISSN: 2395-4396).
- **Meghana S**, "International Journal of Advance Research and Innovative Ideas in Education", To track down the missing individuals using Machine Learning, (ISBN/ISSN: 2395-4396).
- **Vamshi Krishna**, "International Journal of Advance Research and Innovative Ideas in Education", Credit card fraud detection based on Machine learning, (ISBN/ISSN: 2395-4396).
- **Thejaswini K Lamani**, "International Journal of Advance Research and Innovative Ideas in Education", Tomato Leaf Disease detection, (ISBN/ISSN: 2395-4396).





Students Paper Publication

- **T Saikumar**, "International Journal of Advance Research and Innovative Ideas in Education", Usage of Block chain technology in the financial industry (ISBN/ISSN: 2395-4396).
- **Pavani B**, "International Journal of Advance Research and Innovative Ideas in Education", Shopping Preferences are safeguarded by differential privacy, (ISBN/ISSN: 2395-4396).
- **Priti Bharti**, "International Journal of Advance Research and Innovative Ideas in Education", Deep Learning-Based Signature Verification, (ISBN/ISSN: 2395-4396).
- **Dayanand I Mathapati**, "International Journal of Advance Research and Innovative Ideas in Education", AI Desktop Assistant, (ISBN/ISSN: 2395-4396).
- **Ramya. A**, "International Journal of Advance Research and Innovative Ideas in Education", Recognizing Sign Language, (ISBN/ISSN: 2395-4396).
- **Jeevana Sai**, "International Journal of Advance Research and Innovative Ideas in Education", CO2 Emission Prediction using Machine learning, (ISBN/ISSN: 2395-4396).
- **Abhilasha S**, Analysis on Fake News Detection using ML, INTI Conference.
- **Abhishek Kumar Singh**, Drug recognition system based on sentiment analysis of drug reviews using ML, , INTI Conference.
- **Alfiya Khanum R M**, Secure cloud storage with a Subitizable access control system against malicious data publishers, INTI Conference.
- **Balaji R**, Crime type & occurrence prediction using ML algorithm, INTI Conference.
- **Bharath Kumara J**, Facial recognition using CNN using real time data, INTI Conference.
- **Alfiya Khanum R M**, Secure cloud storage with a Subitizable access control system against malicious data publishers, INTI Conference.
- **Balaji R**, Crime type & occurrence prediction using ML algorithm, INTI Conference.
- **Bharath Kumara J**, Facial recognition using CNN using real time data, INTI Conference.





Students Paper Publication

- **Dadam Kiran Kumar**, Social service sector(SSS)from NGO, INTI Conference.
- **Deepa Vishnu Kodiya**, Prevention of unauthorized access to electronic health records using docker, INTI Conference.
- **Deepashree H S**, SOS Smart Remainder and Emergency detection device using ESP8266 and MPU6050, INTI Conference.
- **Durgadevi**, Authorized redundant check support in a hybrid cloud environment, INTI Conference.
- **Fakruddin Ali Ahamed**, Image Background Removal, INTI Conference.
- **Harish V**, Block chain based management for organ donation and transplantation, INTI Conference.
- **Keerthana S N**, Machine learning algorithm evaluation for detection of fake bank currency, INTI Conference.
- **Keshav Kumar Choudhary**, Secure data sharing in IOT using Block chain proxy Encryption, INTI Conference.
- **Lakshmi K**, Stress effect detection using brain signal using AI, INTI Conference.
- **Manjunatha V**, Cybersecurity in Big data era: from securing Big data to data driven security, INTI Conference.
- **Meghana A B**, Predictive analysis for big mart sales using ML algorithms, INTI Conference.
- **Naidile S Saragodu**, Prediction of Fetal Disease health status using ML, INTI Conference.
- **Nandan Kumar N**, Augmented reality application for optical character recognition, INTI Conference.
- **Naveen Kumar M**, Detection and classification of pneumonia, INTI Conference.
- **Padmavathi Y**, CVD detection using photo plethysno, INTI Conference.
- **Ramya T K**, Crop price prediction system, INTI Conference.
- **Ranjitha M**, Driver Drowsiness Detection System, INTI Conference.
- **Rishab Tiwari**, Text to image generation, INTI Conference.
- **Rishabh Singh**, Non fungible token market place{NFT}, INTI Conference.
- **S Sai Kishore**, Effective Bug Triage, INTI Conference.





Students Paper Publication

- **Sandeep T S**, Dual access control for cloud storage and sharing, INTI Conference.
- **Sangamesh K**, Implementing smart college chatbot using ML and Python, INTI Conference.
- **Sharath M S**, Decentralized Non fungible token exchange {NFT}, INTI Conference.
- **Shreyanjali P B**, Social Media Website With Python Using Django, INTI Conference.
- **Smitha D Souza**, Vc Verse: Video conferencing website with notes control, INTI Conference.
- **Suhail Ahmed Khan**, Voice Assisted News App, INTI Conference.
- **Suhil Shoukath Kambali**, Birds Species Classification, INTI Conference.
- **Thugu Rajesh Reddy**, Exploration of an online product evaluation system utilizing ratings and review comments, INTI Conference.
- **Varun P R**, Data analytics strategy to the underground economy of cyber crime, INTI Conference.
- **Yogesh C M**, Traffic sign Board Recognition & voice Alter system using CNN, INTI Conference.
- **Gurukiran H R**, An efficient spam detection in IOT device using Machine learning, INTI Conference.
- **Pruthvi H C**, Predict Parkinson's Disease using Machine Learning with Voice Parameters and Handwriting Images, INTI Conference.
- **Shreyash Surajsingh Gaur**, Easy Learnify- A Student Study Portal, INTI Conference.



'It is the mark of an educated mind to be able to entertain a thought without accepting it' - Aristotle



Students Achievements

- **MCA 1st Semester Students** participated in the Institute Event (Exceptions) at RVCE, on 3/3/2023.



- **MCA 1st Semester Students** participated in the Institute Event (Abhyuday) at Ramaiah Institute of Technology College, March 30-31, 2023.



- **MCA 1st Semester Students** participated in the technical fest organized by CIMS College, Bangalore on May 18th -19th, 2023, and has won the prizes in online Treasure Hunt & Quiz.





Students Achievements

- **MCA 1st Semester Students** participated in the Institute Event (SURSANGRAM) at Surana College (Autonomous).



- **MCA 1st Semester Students** have won the Championship in the Institute Event(Exceptions) at RVCE, on 4-5 March 2023.



- **Nandan S**, MCA 1st semester has achieved NSE 1 Network Security Associate organized by NSE Certification Program FORTINET.





Students Achievements

- **Nandan S**, MCA 1st semester has participated in the Round 1: Executive Summary Submission of the EY Tech Athon 4.0 organised by EY (Ernst & Young).



- **Nandan S**, MCA 1st semester has participated in the Online Assessment of the Coca-Cola Disrupt Season 3 organized by the Hindustan Coca-Cola Beverages.



- **Nandan S**, MCA 1st semester has participated Tech surf 2023 organized by the Content stack.





Students Achievements

- **Nandan S**, MCA 1st semester has successfully completed the certification in Software Engineering Job Simulation organized by JPMorgan Chase & Co.



- **Nandan S**, MCA 1st semester has successfully completed the certification in Introduction to Machine Learning by NPTEL Online Certification.



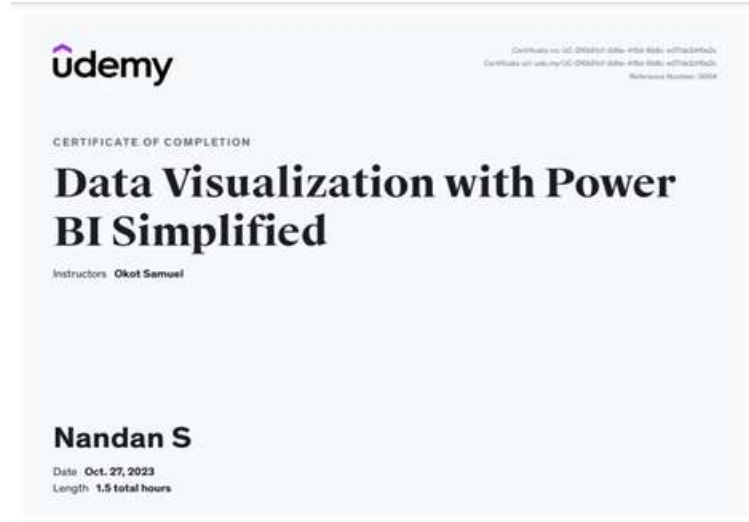
- **Nandan S**, MCA 1st semester has successfully completed the certification in Figma Design Course 2023. Your website from start to Finish organized by Udemy.





Students Achievements

- **Nandan S**, MCA 1st semester has successfully completed the certification in Data Visualization with Power BI Simplified organized by Udemy.



- **Nandan S**, MCA 1st semester has successfully achieved the Top Performer in Neo CODEATHON organized by NEOPAT.





Departmental Activities

EVENT 1: Workshop on Machine Learning, Natural Language Processing & Computer Vision.

Date: 09/01/2023 – 13/01/2023

Resource Person: Dr Suresh Kannaivan, Founder, Menmozhi Technologies.



DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT
Opp. Art of Living, Udayapura, Kanakpura Road, Bangalore- 560082

Department of Master of Computer Applications

Workshop on
MACHINE LEARNING, NATURAL LANGUAGE PROCESSING & COMPUTER VISION

Resource Person

Dr. Suresh Kannaiyan, Ph.D
Founder, Menmozhi Technologies

Date: January 9th - 13th, 2023
Time: 09:30 AM - 05:00 PM

Venue: MCA Lab

Coordinator: Mrs. Usha sree R, Assistant Professor, DSATM
Convenor: Dr. Manjula Sanjay, Prof. & HOD-MCA, DSATM
Organising chair: Dr. Ravishankar M, Principal, DSATM



“Failure is simply the opportunity to begin again. This time more intelligibility.”
-Henry Ford



Departmental Activities

EVENT 2: Workshop on Salesforce cloud platform.

Date: 09/02/2023 – 11/02/2023

Resource Person: Mr. N H Suresh, Principal Consultant, MTX group Bangalore.

**DAYANANDA SAGAR ACADEMY
OF TECHNOLOGY
& MANAGEMENT**

Affiliated to VTU, Belagavi, and Approved by
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Udayapura, Opp. Art of living, Kanakapura main
road, Bangalore-560082



**WORKSHOP ON SALESFORCE
CLOUD PLATFORM**

Organized
by
**Department of
Computer Applications**

09th - 11th February 2023



**WORKSHOP ON SALESFORCE
CLOUD PLATFORM**



RESOURCE PERSON
MR. H N SURESH
Principal Consultant,
MTX Group, Bangalore

VENUE
MCA Lab Hall

DATE
**09th - 11th February
2023**



“Believe in yourself and all that you are. Know that there is something inside you that is greater than any obstacle.” – Christian D. Larson



Departmental Activities

EVENT 3: Workshop on Selenium Testing.

Date: 10/03/2023 – 11/03/2023

Resource Person: Mr. Mahantesh Hallur, Lead Quality Engineer, Walmart Labs, Bangalore.

Chief Patrons:

Founder MGVP Trust

Dr. D Hemachandra Sagar
Chairman, DSI

Dr. D Premachandra Sagar
Vice Chairman & CEO, DSI

Sri. Galiwamy
Secretary, DSI

Organising Chair
Dr. M Ravishankar,
Principal, DSATM

Convenor
Dr. Manjula Sanjay
Prof & Head, MCA, DSATM

About DSATM

Dayananda Sagar Academy of Technology and Management (TC) is approved by the All India Council for Technical Education (AICTE), Govt. of India, and affiliated with Vignansaraya Technological University. It has the widest choice of Engineering Branches having 9 Under Graduate Courses, B. Architecture, MBA, and MCA programs. DSATM is Accredited with NAAC A+ grade and NBA with 6 departments accredited. To strive at creating the institution a center of the highest caliber of learning, so as to create an overall intellectual atmosphere with each deriving strength from the other to be the best of engineers, and scientists with management & design skills.

About Department of MCA

The MCA program at Dayananda Sagar Academy of Technology & Management is affiliated to VTU, Belagavi & approved by AICTE, with an intake of 60. The duration of the MCA program is 2 years. The department believes that Innovative Teaching-Learning methods coupled with problem solving using modern tools helps the students to enhance their skills & enable them to handle the challenges faced in their professional life.

The students are encouraged to participate in extracurricular & Co-curricular activities along with regular academic activities. The students get an opportunity to enhance their skills through Technical Talks, Workshops, Alumni Interaction & Industrial visits.

The department encourages faculties and students to participate in National/International conferences to exhibit their ideas in the form of presentations and also publications in peer reviewed Journals. The department has dedicated & committed faculty members supported by technical & administrative staff. The faculties are actively involved in research.

DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT

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WORKSHOP ON SELENIUM TESTING

Organized by
Department of Computer Applications

10th & 11th March 2023

WORKSHOP ON SELENIUM TESTING

RESOURCE PERSONS

Mr. Mahantesh Hallur
Lead Quality Engineer, Walmart Labs, Bangalore

Dr. Premasudha. B.G
Prof. & Head
Siddaganga Institute of Technology, Tumkur

VENUE
MCA Lab Hall

DATE
10th & 11th March 2023

Course objectives

- Get introduced to Selenium and know about the advantages, history and application of Selenium.
- Learn about the open source record-and-playback tool for generating Selenium scripts, which is integrated with the Firefox web browser as an extension.
- Learn to run tests in any one of the most popular web browsers with WebDriver playback.
- Learn to test the web application with multiple web browsers with WebDriver Cross-browser Tests.
- Learn the object-oriented approach to test web-based applications with WebDriver Functions.
- Learn how TESTNG overcomes the limitation of another popular testing framework JUnit.
- Learn the frameworks and Page Object Model(POM)

Course outcomes

- Creating Maven project and executing scripts using Maven build tool.
- Work on Selenium IDE: functions, Selenium Builder, and learn how to handle the Selenium IDE to automate simple tests.
- Perform Selenium cross-browser automation tests, and learn how to run automation tests in the cloud, and how to switch user agents.
- Execute Tests Suites and generate reports using TestNG.
- Build automation frameworks from scratch, and optimize a successful Selenium WebDriver automation framework.

TOPICS COVERED

DAY 1

	Topic
1	Introduction to Automation Testing
2	Setting up WebDriver, Maven, TestNG.
3	Selenium IDE

DAY 2

	Topic
1	Selenium WebDriver.
2	TestNG Framework.
3	Selenium WebDriver Frameworks





Departmental Activities

EVENT 4: Workshop on Data Science Full Stack.

Date: 07/07/2023

Resource Person: Ms. Vishnu Priya, Cofounder, Data Science Stack, Bangalore.



“The function of education is to teach one to think intensively and to think critically. Intelligence plus character—that is the goal of true education.”

– Martin Luther King,



Departmental Activities

EVENT 5: Workshop on Artificial Neural Networks.

Date: 28/08/2023

Resource Person: Ms. Vishnu Priya, Cofounder, Data Science Stack, Bangalore.



EVENT 6: Workshop on UI/UX.

Date: 07/09/2023

Resource Person: Mr. Vinod Gowda, Design Thinker, Indegene, Bangalore.





Departmental Activities

EVENT 7: Workshop on Tableau.

Date: 09/09/2023

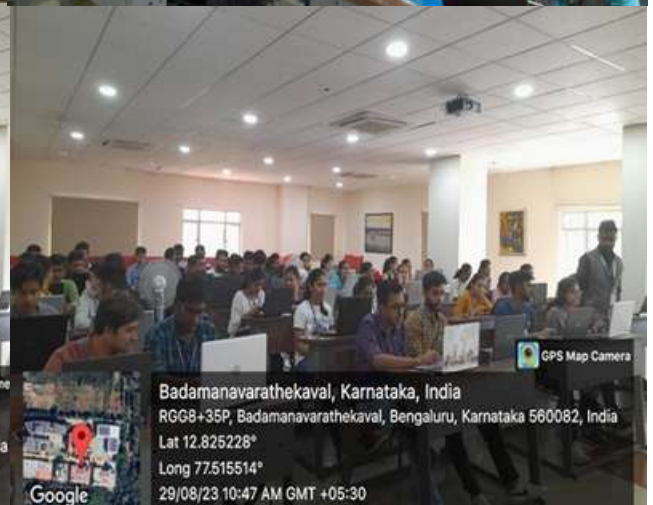
Resource Person: Mr. Umesh Panigraphy, Functional Engineer, Kimberley Clerck, Bangalore.



EVENT 8: Workshop on Rapid Miner.

Date: 29/08/2023

Resource Person: Mr. Mounish L, Assistant Professor, DSI, Bangalore.



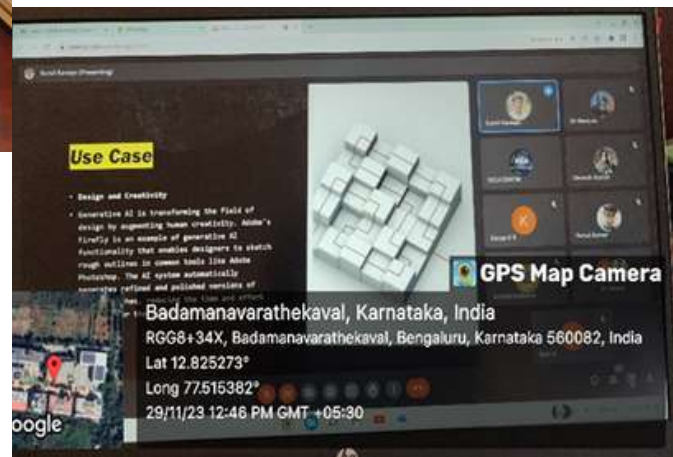


Departmental Activities

EVENT 9: Generative AI

Date: 12/09/2023

Resource Person: Mr. Yogesh, Cyber Security, Staff Member, Mind tree, Bangalore.



“Striving for success without hard is like trying to harvest when you haven’t planted.” -David Bly



Project Exhibition

EVENT 10: Project Exhibition on Data Analytics using Python.

Date: 13/03/2023

Resource Person: Dr. Kavitha C, Prof & Head, CSE, Dr. Bhagya Shri R Hanji, Prof. Dept of CSE.



Project Exhibition Winners List

Name	Class	Project Topic	Prize
Ramya A Dayanand I M	III Sem MCA	AI Desktop Application	I
Shreyanjali P B Smitha D Douza	III Sem MCA	Instagram Reach Analysis	I
Anand Kaman Aritra Dutta	III Sem MCA	Prepare reviews for a product using Logistic Regression SVM & KNN.	II



**“Education is the key to unlocking the world, a passport to freedom.” –
Oprah Winfrey**



Project Exhibition

EVENT 11: Project Exhibition on IOT.

Date: 14/03/2023

Resource Person: Dr. Shashikala, Prof & Head, IOT, Dr. Nandini Prasad K S, Dean Foreign Affairs, Prof. & HOS ISE.



Project Exhibition Best Performance List

Name	Class	Prize
Balaji Abhilasha	III Sem MCA	Best Performance
Sharath Sai Kumar	III Sem MCA	Best Performance



“The function of education is to teach one to think intensively and to think critically. Intelligence plus character – that is the goal of true education.”

– Martin Luther King Jr.



Project Exhibition

EVENT 12: Project Exhibition on Data Structures.

Date: 30/05/2023

Resource Person: Dr. Bhaskar Rao, Professor, Department of CSE, DSATM.



Project Exhibition Winners List

Name	Class	Project Topic	Prize
Srinidhi Kulkarni Trupthi Y N T Mohammed Adil	I Sem MCA	Department Store Managment System	I
Annapoorna C M Hari Prasad US Karthik C	I Sem MCA	PAC MAN Game	II



"The purpose of education is not to fill the minds of students with facts... it is to teach them to think." – Robert M. Hutchins



Project Exhibition

EVENT 13: Project Exhibition on Advance Technologies.

Date: 01/08/2023

Resource Person: Dr. Rama Abhirami K, Professor, Department of ISE, Dr. Shalini S, Professor, Department of CSE, Dr. Madhu mala, Professor, Department of ISE, DSTAM.



Project Exhibition Winners List

Name	Class	Project Topic	Prize
D Vamshi krishna	IV Sem MCA	Credit card fraud detection based on Machine Learning	I
Smitha D Souza	IV Sem MCA	Video conferencing website with notes control	II





Technical Fest - INSTELLATION

EVENT 14: Technical Fest 2K23

Date: 17/08/2023 – 18/08/2023

Chief Guest: Dr. Madhan Kumar Srinivasan, CEO & Co-founder - Wise Work, Co-founder - DNAI World & Hue Learn, Singapore, Dr. Revathy Padmanaban, Associate Director - Strategy & Transformation, PepsiCo.



Badamanavarathekaval, Karnataka, India

RGG8+34X, Badamanavarathekaval, Bengaluru, Karnataka 560082, India

Lat 12.825326°





Technical Fest - INSTELLATION



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Technical Fest

Technical Fest Winners List

Event Name	Winner College Name	Winner Participant Name	Runner Up College Name	Runner Up
Codexplore	Kristu Jayanti College	Abba Jason Samuel Abin Xavier	Kristu Jayanti College	Ritheka Maha S Saviana Gustav
Quizzofobs	Maharani Cluster University	Yashaswini M N Gagana C	Kristu Jayanti College	Janani D Athul Kurian
Web Wizards	Kristu Jayanti College	Rushil Sinha Amith Paul	T John College	Chandan Varun M.S
It Crown	Surana College	Pallavi S	-----	-----
Battle Of Extremes	DSBA	Nilay And Team	Kristu Jayanti College	Lohith S And Team
Seekers Of Secrets	Oxford College Of Engineering	Prashanth K And Team	-----	-----
Pixelup	Kristu Jayanti	Pranav K H	Surana	Thejas Prasad A H

Overall Technical Fest Winners “Kristu Jayanti College”





Industrial Visit

EVENT 15: Industrial Visit in Mind Tree.

Date: 11/09/2023

Coordinator: Mr. Yogesh, Cyber Security, Staff Member, Mind tree, Bangalore.

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"The best investment you can make is in your own abilities. Anything you can do to develop your own abilities is probably going to pay you the best interest."

– Warren Buffett



FDP Organized

EVENT 16: Faculty Development Program on “Relish Life”.

Date: 08/04/2023

Resource Person: Ms. Sushma Lingaraj, Motivational speaker & Life coach.



EVENT 17: Faculty Development Program on “Power BI”.

Date: 16/11/2023-22/11/2023

Resource Person: Dr. Chitra K, Associate Professor, MCA Department, DSATM, Prof. Usha Sree & Prof. Harshitha, Assistant Professor, MCA Department, DSATM.



“The more that you read, the more things you will know. The more that you learn, the more places you’ll go.” – Dr. Seuss



Industry/Academia Connect International Connect

- The Department of MCA signed an MOU with INTI International University, Malaysia on Feb 1st, 2023.



- The Department of MCA signed an MOU with BeyondSeed Tech Ventures Pte Ltd, Singapore, on November 2nd 2023.





Industry/Academia Connect

- The Department of MCA signed an MOU with IVIEWSENSE Pvt. Ltd., Bengaluru on April 24th 2023.



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"The ideal country in a flat world is the one with no natural resources, because countries with no natural resources tend to dig inside themselves. They try to tap the energy, entrepreneurship, creativity, and intelligence of their own people -men and women-rather than drill an oil well"

- Thomas L Friedman



Semester Toppers

MCA 2021 - 2023 Batch

- Third Semester Topper**



NAIDILE S SARAGODU
1DT21MC024



PADMAVATHI Y
1DT21MC029



DEEPASHREE H S
1DT21MC012



RAMYA T K
1DT21MC037

- Fourth Semester Toppers:**



LAKSHMI K
1DT21MC019



NAIDILE S SARAGODU
1DT21MC024



PADMAVATHI Y
1DT21MC029





Semester Toppers

MCA 2022 - 2024 Batch

- First Semester Topper**



SIMRAN TANWANI
1DT22MC045



SHOBHA D S
1DT22MC044



TANUJA M
1DT22MC049



THRUPTHI C P
1DT22MC050

- Second Semester Toppers:**



SIMRAN TANWANI
1DT22MC045



SRINIDHI KULKARNI
1DT22MC047



THRUPTHI C P
1DT22MC050





Placement

Sl no	Name	USN No	Name of the Employer
1	FAKRUDDIN ALI AHAMED	1DT21MC015	Cap Gemini
2	S SAI KISHORE	1DT21MC041	Cap Gemini
3	SMITHA D SOUZA	1DT21MC047	Cap Gemini
4	RAMYA A	1DT21MC036	Cap Gemini
5	SHREYASH SURAJ SINGH GAUR	1DT21MC059	Cap Gemini
6	ARITRA DUTTA	1DT21MC006	Virtusa
7	S SAI KISHORE	1DT21MC041	Virtusa
8	SANGAMESH KADASIDDESHWARMATH	1DT21MC044	COGNIZANT
9	DAYANAND I MATHAPATI	1DT21MC055	COGNIZANT
10	HARISH V	1DT21MC016	TCS
11	MANJUNATH V	1DT21MC020	TCS
12	ABHISHEK KUMAR SINGH	1DT21MC002	Investosure Consultancy
13	RISHABH SINGH	1DT21MC040	Investosure Consultancy



Placement

Sl no	Name	USN No	Name of the Employer
14	ALFIYA KHANUM R M	1DT21MC004	Workpace options
15	AKSHAY A	1DT21MC003	Lenova
16	DADAM KIRAN KUMAR	1DT21MC010	Altruist Technologies
17	P JEEVANA SAI	1DT21MC028	Samarthanam Trust
18	SHARATH M S	1DT21MC045	AI masters world company
19	SHREYANJALI P B	1DT21MC046	AI masters world company
20	THEJASWINI K LAMANI	1DT21MC051	AI masters world company
21	DUGGINA VAMSHI KRISHNA	1DT21MC013	DaT Cloud Solutions Private Ltd
22	MEGHANA S	1DT21MC057	Lloyds offshore Gobal Services Private Limited.



Placement

Sl no	Name	USN No	Name of the Employer
23	N VAMSHI KRISHNA	1DT21MC023	Lloyds offshore Gobal Services Private Limited.
24	PRITI BHARTI	1DT21MC031	Lloyds offshore Gobal Services Private Limited.





Student Corner

Decoding Minds, Designing Delights: The Power of Psychology in UI & UX Design

Have you noticed the intuitiveness of an app which we use, which feels like reading your minds? Or might you have experienced a website which is made in such a way that its layout guides you effortlessly to your motive & goal? Then you might have witnessed the magic of UI & UX.

More than the functionality & aesthetics of the application or website, the “User Interface” (UI) & “User Experience” (UX) design grabs a hold of “Human Psyche”, understanding how we grasp, navigate, and interact with the products (mainly digitally). By exploring the power of Psychology, designers design experiences that are not just meant to be usable but also to resonate with the user emotionally & psychologically effectively. So, what makes this fusion of discipline so important, powerful & influential? Let's take a dive into the key psychological principles that inform effective UI & UX design:

- **Cognitive Load Management:** Human brains have a limited capacity for processing information. An UI which is overloaded with elements or very complex navigation creates Cognitive Overload (suddenly loaded with high data or information - which the brain unable to process or understand), which leads to frustration & abandonment or stops the task immediately. So by applying the basic principles of designing like utilizing white space, utilizing hierarchical design, grouping the information into chunks (for better grasping of information), focusing on the simplicity of information layout. The designer ensures that the user can effortlessly comprehend and complete tasks.





Student Corner

Decoding Minds, Designing Delights: The Power of Psychology in UI & UX Design

- **Gestalt Principles:** As the name suggests Gestalt Principles which says the principle of human perceptions (mainly visual perception). This shows the organization of the content, maintaining the flow of information, which makes sense as the proper flow of data or information will make sense to the user. There are actual principles given by Gestalt, known as Gestalt Principles of designing, they are as follows:
 - **Law of Similarity:** This law states that similar kinds of things must appear close to each other or in a group. Grouping similar things can create natural audio-visual stimuli (reaction).
 - **Law of Prägnanz (simplicity):** This law is also known as Law of Good Figure or Law of Simplicity. This law states that we are presented with a set of complex objects, our brain will make them appear as simple as possible. The best example for the law is of the logo of “Olympic”, where we can only see the overlapped circles but not the assorted curved & connected lines.
 - **Law of Proximity:** In other words, Proximity means nearness or closeness, which says that closer the objects, they seem to be more related things than those which are spaced farther or in distance.
 - **Law of Continuity:** The Law of Continuity grabs the points that are connected by straight or curved lines, seen in a way that glides the smoothest path. In another way, we can say elements in a line or curve makes a perspective to be more related to one another than random position.





Student Corner

- **Law of Closure:** According to this law, we are likely to perceive elements to the same group if they seem to complete some kind of entity. Generally, brains often ignore contradictory information and tend to fill the gaps in information.
- **Law of Common Region:** Lastly, the law of common regions says, when elements are placed closely, we tend to see them as a group.
- **Motivation & Emotion:** Actually, effectiveness of design goes beyond usability, it's just a way to grasp an user and retain them every single time through emotions & motivation. Utilizing color psychology, storytelling elements, and gamification techniques, designers can foster engagement, build trust, and even trigger desired actions.
- **User Empathy & Mental Models:** Understanding every category of users and their mental model according to the business strategy or target audience, their existing knowledge, perception and expectations is very crucial. By conducting user study & research and building empathy, designers can create interfaces that are linked with the user's mental model and thoughts, reducing the learning curve and resembling a sense of familiarity.
- **The power of Habit:** Repetition builds habits over time, and good design can bring out its advantage. By applying consistent layouts, predictable interactions & suitable scenarios, designers can create habit-forming experiences that redeems the users to come back for more.





Student Corner

The Benefits of this Psychological Fusion:

By applying this psychological principle in UI & UX, you can unlock benefits such as:

- ★ Increased user engagement and satisfaction
- ★ Improved task completion rates and conversation
- ★ Enhanced brand trust & loyalty
- ★ Reduced cognitive load and learning curve
- ★ More intuitive & user-friendly interfaces

Conclusion: Psychology is not just an add-on in UI & UX design; it's the very foundation for creating successful, user-centric experiences. By understanding and applying these principles, designers can craft interfaces that speak to the human mind, fostering not just usability, but emotional connection and delight. So, the next time you interact with a seamless and intuitive interface, remember, it's likely the result of designers tapping into the power of psychology to create a truly magical experience.

Want to learn more? Explore resources on Gestalt principles, cognitive load theory, and emotional design to dive deeper into the fascinating world of psychology in UI & UX design. Remember, understanding your users' minds is the key to unlocking the true potential of your digital products

**Compiled by,
Arpan Chakraborty
MCA III Semester**

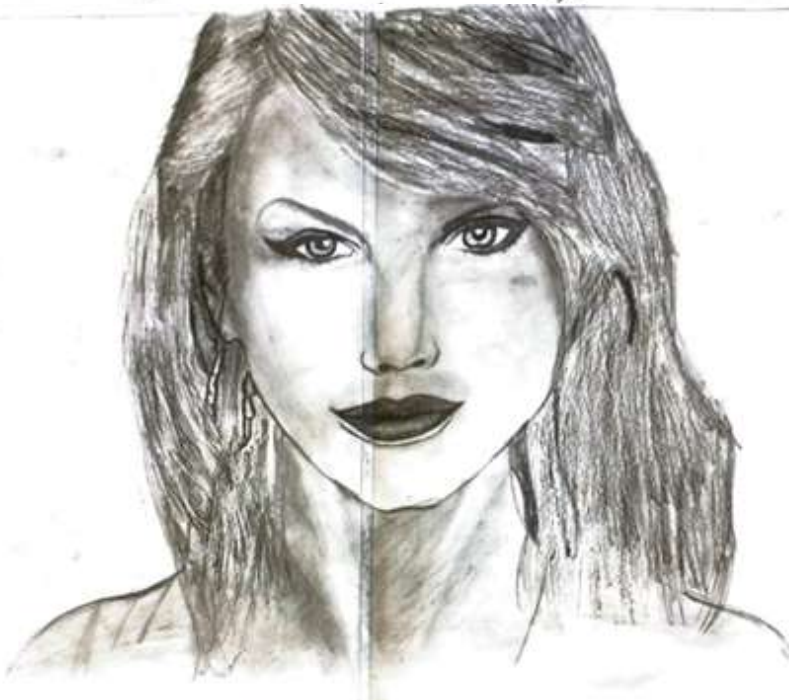




Student Sketches

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Art by
Yashwini Kini
MCA III Semester





Student Sketches

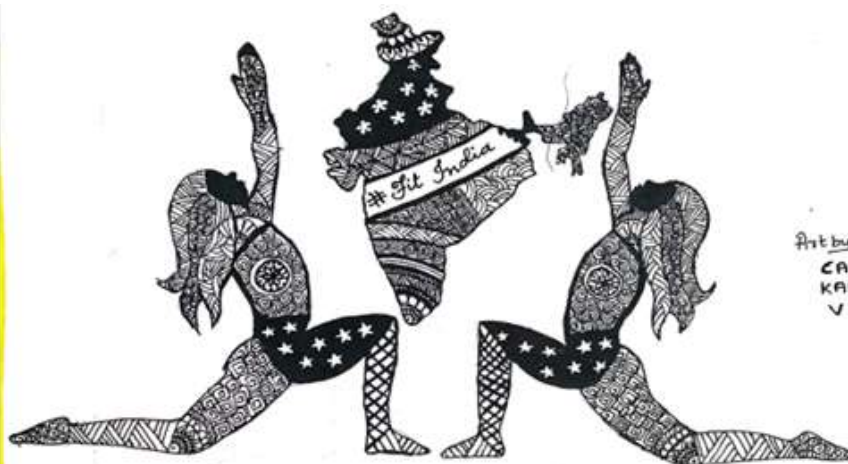


Art by
Yashwini Kini
MCA III Semester





Student Sketches



Art by:-
CADET YASHASWINI KINI
KAR/SW/19/A/387557
VC Pustur



Art by
Yashwini Kini
MCA III Semester





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Venkatesh Sd
1DT22MC055



Tanuja M
1DT22MC049

