

RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY

Affiliated to Dr. A.P.J. AKTU, Lucknow
5th KM Stone Delhi-Meerut Road Ghaziabad, U.P.



A Half Yearly Department Newsletter

Volume 1, Issue 1

DIMENSIONAL DISCOVERIES

“
THE BEST WAY TO LEARN DATA
SCIENCE IS TO DO DATA SCIENCE.
”



Department of Computer Science & Engineering
(Data Science)



EDITORIAL TEAM:

Faculty Members: Dr. Preeti Sharma,
Ms. Pooja Chaudhary

Student Members: Ms. Poorva Tyagi
Ms. Sejal Singh
Mr. Sarthak Aggarwal
Mr. Tarandeep Singh,
Ms. Sneha

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ABOUT DEPARTMENT



Data science engineering is a broad-spectrum and multidisciplinary field (e.g., natural sciences, information technology, and medicine). The subject implies scientific methods to find and understand patterns that are given with big data.

While many interdisciplinary subjects overlap with data science or use part of the techniques, the Data Science is interesting and can be a gateway to more professions.

Data Science Department goal is to be at the forefront of leveraging cutting-edge techniques and technologies to extract valuable insights and knowledge from vast and complex datasets. In today's data-driven world, Data Science Engineers plays a crucial role in various industries and domains, ranging from business and healthcare to finance and technology.

By applying a combination of statistical analysis, machine learning, artificial intelligence and domain expertise, Data Science Department always place an important role to produce promising Engineers uncover hidden patterns, create predictive models, and provide actionable recommendations that drive innovation and growth.

Message

VISION & MISSION



VISION:

To prepare next generation practitioners and researchers for global competent data analytic world with the highest standard of professional ethics.

MISSION:

- **M1** : To develop industry conducive environment by providing state-of-art infrastructure to compete in data-driven world.

- **M2** : To empower students to provide innovative and cognitive solutions with the help of data analytical skill set and new advancements in high performance computing
- **M3** : To build data intensive system through socio-economic aspect by promoting cross-disciplinary thinking that expands expertise in cutting edge technologies and acquire professional ethics .



HIGHLIGHTS

- Association with software companies **Net-camp, Softpro** etc to provide training and internship in Java, Networking, Android and Python.
- **Value added courses** are running in department on the competitive sites like **Hacker Ranker, Co-deShef and Code Ninja** etc.
- **Workshop / Guest-lectures / Analytical Club** for students to give exposure to enhance their inter disciplinary skill.
- Active Participation in **Zonal Sports, Drone competition** and **The Dramatic Societies** organized by AKTU.
- Organized **Industrial Visits** for students to acquire knowledge about the current industrial requirements and Trends.
- **Knowledge sharing** session for students to enhance their technical knowledge according to current trends



DATA SCIENCE TEAM



Dr. Preeti Sharma
Professor



Mr. Manas Tripathi
Assistant Professor



Ms. Pooja Chaudhary
Assistant Professor



Ms. Neha Paliwal
Assistant Professor



Ms. Bhawna Goel
Assistant Professor



Mr. Subhash Vats
Assistant Professor



Ms. Sonia Choudhary
Assistant Professor



Mr. Abhinav Lodhi
Assistant Professor



Ms. Kajal Gupta
Assistant Professor



Mr. Saral Garg
Assistant Professor



Mr. Devesh Som
Assistant Professor



Mr. Nitesh
Assistant Professor

DEPARTMENT ACHIEVEMENTS

12 Patents filed under the Department of CSE(DS)

5 Published Paper and Book Chapters in Scopus/Springer/UGC Care

17 FDP/ Workshop Attended by Faculty Members of CSE(DS)

2 MOU Signed with Codetantra by the CSE(DS) Department

100% Certification of Coursera & Big Data Technology from CDAC

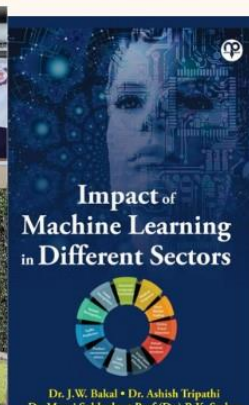
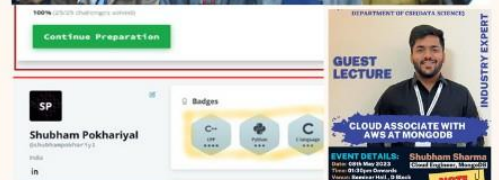
07 NPTEL Certifications

+7 students are 4star competitive coders on HackerRank

Data Quest Club was established under Department CSE(DS)

PUSHPAK Club was established under the RKG Group in association with CSE(DS) &(AIML)

21 Days In Campus Training Program in association with NetCamp



FACULTY PUBLICATIONS

PAPERS

S.NO.	AUTHOR'S NAME	PAPER TITLE	SCI/SCOPUS/UGC
1	Dr. Preeti Sharma	Face Detection using AI and ML algorithm	SCOPUS
2	Dr. Preeti Sharma	Impact on Mental Health Using Machine Learning	SCOPUS
3	Dr. Preeti Sharma	Deep Learning based Intrusion Detection System for Internet of Things Networks for Enhancing Security Against Cyber Attacks	SCOPUS
4	Pooja Chaudhary	Panoramic Study on Cloud Computing	SCOPUS (Q3)
5	Bhawna Goel	Panoramic Study on Cloud Computing	SCOPUS (Q3)

PATENTS

S.NO.	FACULTY NAME	PATENT TITLE	APPLICATION NUMBER
1	Dr. Preeti Sharma	IOT based gadgets empowered with Novel system and methods for Health monitoring	202311016325
2	Dr. Preeti Sharma	Broadcasting of message using social media in the scenario of emergency.	202311002492 A
3	Dr. Preeti Sharma	AI based mobile robot system.	202211070010
4	Dr. Preeti Sharma	A smart system for real-time monitoring of crop fields using night vision and sonic sensors.	202211057696 A
5	Mr Manas Tripathi	IOT based gadgets empowered with Novel system and methods for Health monitoring	202311016325
6	Mr Manas Tripathi	IOT Enabled pressure cooker to control the temperature using cell phone	202211066066A
7	Ms. Pooja Chaudhary	Big Data Strategies for marketing revolution	202311007263
8	Ms. Pooja Chaudhary	A System and method for Hybrid Encryption	202211063331
9	Ms. Neha Paliwal	A System and method for Hybrid Encryption	202211063331
10	Ms. Bhawna Goel	A system for implementation and evaluation of a blockchain-based energy market and working method thereof	202311004391
11	Ms. Bhawna Goel	A System and method for Hybrid Encryption	202211063331
12	Ms. Bhawna Goel	A System for market intelligence and its effect on strategic and tactical decision making	202211053271



NPTEL Online Certification
This certificate is awarded to
BHAWNA GOEL
for successfully completing the course
Python for Data Science
with a consolidated score of **54** %
[Online Assignments | 17/25/25 | Practical Exam | 30/25]
*Total number of candidates certified in this course: 4711
Jan 2024 2024



NPTEL Online Certification
This certificate is awarded to
MANAS KUMAR TRIPATHI
for successfully completing the course
Discrete Mathematics
with a consolidated score of **70** %
[Online Assignments | 22/25/25 | Practical Exam | 42/100]
*Total number of candidates certified in this course: 352



Certificate of Completion
This is to certify that
Pooja Chaudhary
has successfully completed the course
BIG DATA TECHNOLOGIES
with a consolidated score of **70** %
[Theory Assignments | 10/10/10 | Practical Exam | 50/50]
*Total number of candidates certified in this course: 100



Certificate of Completion
This is to certify that
Dr. Preeti Sharma
has successfully completed the course
Machine Learning
with a consolidated score of **70** %
[Theory Assignments | 10/10/10 | Practical Exam | 50/50]
*Total number of candidates certified in this course: 100



NPTEL Online Certification
This certificate is awarded to
PREETI SHARMA
for successfully completing the course
Machine Learning
with a consolidated score of **70** %
[Online Assignments | 17/25/25 | Practical Exam | 30/25]
*Total number of candidates certified in this course: 4711
Jan 2024 2024



NPTEL Online Certification
This certificate is awarded to
PREETI SHARMA
for successfully completing the course
Machine Learning
with a consolidated score of **70** %
[Online Assignments | 17/25/25 | Practical Exam | 30/25]
*Total number of candidates certified in this course: 4711
Jan 2024 2024

FACULTY PUBLICATIONS

NPTEL / CDAC / MOOCS

S.NO.	FACULTY NAME	CERTIFICATE TITLE	PLATFORM
1	Dr. Preeti Sharma	Data Analysis using R Programming	Coursera
2	Dr. Preeti Sharma	Big Data Technology	CDAC
3	Mr. Manas Tripathi	Discrete Mathematics	NPTEL
4	Ms. Pooja Chaudhary	Data Analysis using R Programming	Coursera
5	Ms. Pooja Chaudhary	Big Data Technology	CDAC
6	Ms. Pooja Chaudhary	Python for Data Science	NPTEL
7	Ms. Neha Paliwal	Data Analysis using R Programming	Coursera
8	Bhawna Goel	Data Analysis using R Programming	Coursera
9	Bhawna Goel	Big Data Technology	CDAC
10	Bhawna Goel	Python for Data Science	NPTEL

FDP / WORKSHOPS

S.NO.	FACULTY NAMES	TITLE	TOTAL FACULTY
1	Mr. Manas Tripathi	Use of Tools and Techniques in Research Based Project	01
2	Ms. Pooja Chaudhary Ms. Neha Paliwal Ms. Bhawna Goel	"NITTTR FDP" Planning Execution and Evaluation of Project work	03
3	Mr. Manas Tripathi	30 Days Data science 2.0 Internship Program	01
4	Ms. Bhawna Goel	30 days masterclass on machine learning	01

5	Ms. Neha Paliwal Ms. Bhawna Goel	A review of machine learning in education	02
6	Ms. Pooja Chaudhary Ms. Bhawna Goel	Artificial Intelligence Machine Learning & Interdisciplinary approach for Natural language processing	02
7	Mr. Manas Tripathi Ms. Pooja Chaudhary	Blue Ocean Strategy for Entrepreneurship Promotion	02
8	Ms. Pooja Chaudhary	Developing and measuring competence " A way towards building dynamics organisations"	01
9	Ms. Neha Paliwal	Emerging Trends and applications of machine learning based artificial intelligence	01
10	Ms. Bhawna Goel	Faculty Development Programme on Machine Learning Using Python for Beginners	01
11	Ms. Pooja Chaudhary Ms. Divya Sahgal Ms. Bhawna Goel	Introduction to Embedded systems and robotics	03
12	Dr. Preeti Sharma Ms. Neha Paliwal	Python and Related Emerging Technologies	02
13	Ms. Neha Paliwal	NITTTR FDP on Modeling & Simulation using 'MATLAB'	01

FACULTY PUBLICATIONS

14	Mr. Manas Tripathi Ms. Pooja Chaudhary Ms. Neha Paliwal Ms. Divya Sahgal Ms. Bhawna Goel	Networking and Cloud Computing based techniques	05
15	Mr. Manas Tripathi	Python Programming	01
16	Ms. Bhawna Goel	Systematic literature review and bibliometric analysis	01
17	Ms. Pooja Chaudhary Ms. Neha Paliwal Ms. Bhawna Goel	Webinar on NEP-2020: Challenges and opportunities	03

STUDENT ACHIEVEMENT

CERTIFICATIONS/ INTERNSHIPS

S.NO.	YEAR	CERTIFICATE TITLE	STATUS
1	2nd Year	Supervised ML: Classification & Regression	100%
2	3rd Year	Data Analysis using R Programming	100%
3	2nd + 3rd Year	NPTEL SWAYAM	7 Counts
4	3rd	Big Data Technology	100%
5	3rd Year	Eleve8 Real Time Project Internship	12 Counts
6	2nd + 3rd Year	AICTE Cohort 4 & 5 Internship	+35 Counts



TECHNICAL ACHIEVEMENTS

S.NO.	YEAR	NAME	EVENT
1	3rd Year	Vishesh & Shrijal	Participated in Blind Coding
2	3rd Year	Tarandeep Singh Gujral	1st Position in Robotics as SRIJAN'22



SPORTS ACHIEVEMENTS

S.NO.	YEAR	NAME	EVENT
1	3rd + 2nd Year	Kartikey Tiwari, Aditya Singh, and Dev Chaudhary	2nd Position in Volleyball, KIET
2	3rd + 2nd Year	Sarthak Aggarwal, Shubham, Pradyumn, and Jeraldin PJ	1st Position in Velorance at ESports, KIET
3	3rd Year	Aryan Bajpai	2nd Position in Football, AKTU Fest

STUDENT ACHIEVEMENT

LITERARY ACHIEVEMENTS

S.NO.	YEAR	NAME	EVENT
1	2nd Year	Vishal Tiwari	2nd Position in JAM Extremore
2	3rd Year	Anjali Mehta, Aayushi Vats, Shiv Narayan Gupta & Tanmay Gupta	2nd Position in Mercato'22 at Jaipuria College



Mercato'23



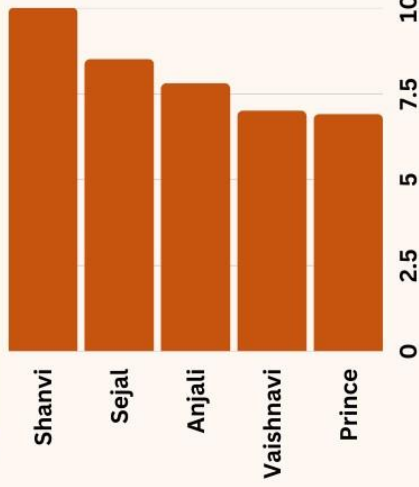
Vishal Tiwari



Tarandeep

Kusumgar Corpora-ate Pvt Ltd, A Textile based company of-fers Tarandeep Singh Gujral one week Data An-alytics Projects at their Surat & Vapi Plants. On that te-nure, He created 9+ Dashboards, out of that Sales Ageing Analysis, Purchase Track History, Stock Ageing Analysis are major projects.

STAR PERFORMERS



Shanvi Pachauri



Sejal Singh



Anjali Singh

Vaishnavi



Prince Yadav



Anurag Yadav



Yash Tripathi



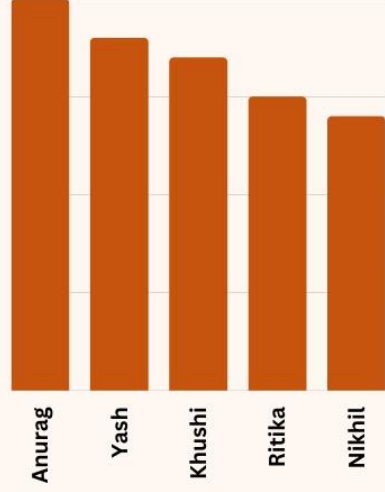
Khushi Goel



Ritika Nayak



Nikhil Kumar



5th SEMESTER



3rd SEMESTER

STUDENTS TAKEN PLEDGE FOR SDG GOALS



" say yes to life , no to drugs "



" Pledge for Uttam Poshan, Uttam Jeevan "

DATA QUEST CLUB

OBJECTIVE:

- Facilitate exposure to the domains of computer technology, data analytics, and machine learning in addition to the standard curriculum.
- The club's objective is to foster personality development through immersive activities and interactions within an industrial environment."

ACTIVITIES



Faculty Incharge:
Dr. Preeti Sharma
Coordinator:
Pooja Chaudhary

The Data Quest Club at RKGIT College was founded in October 2022 with the objective of bridging the gap between the industry and academia. The club offers students an opportunity to both share and expand their ideas, facilitating interaction with the industry to broaden their horizons in the ever-evolving field of Data Science and its rapidly changing technology.

Summary

DATE	ACTIVITY	PARTICIPANTS
20/Dec/2022	Analytical Presentation 1.0	58
24/Jan/2023	Analytical Presentation 2.0	70
29/Jun/2023	AI Bot Battle	68



The event 'ANALYTICAL PRESENTATION 1.0' was conducted on the 20th of December, specifically for third-year students. During this event, participants were assigned a complex problem that necessitated in-depth comprehension of the subject matter and the capacity to articulate their analysis with precision and clarity.



Analytical Presentatio 1.0

The event 'ANALYTICAL PRESENTATION 2.0' was orchestrated on the 24th of January, exclusively for second-year students. During this occasion, participants were tasked with addressing a complex problem that demanded a profound comprehension of the subject matter and the proficiency to articulate their insights with clarity and conciseness.

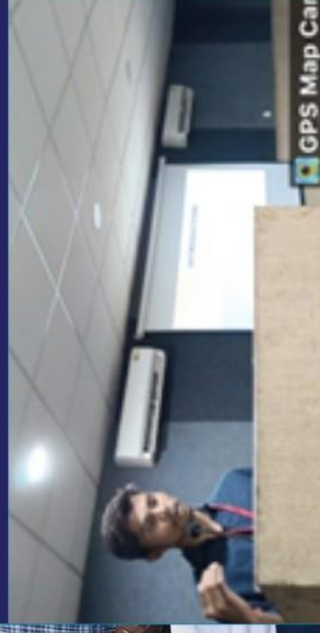


Analytical Presentation 2.0



AI Bot Battle

AI BOT BATTLE was organized on 29th June for all 2nd year Students where students showcase was AI Bots Strengths and Weaknesses.



TECHNICAL TRAININGS



WORKSHOP ON WEB APPLICATION USING PYTHON BY SOFTPRO

The students were given hands-on training on developing web applications to apply their learning and develop their own innovative solutions using Python and tools.

21 DAYS TRAINING PROGRAM ON NETWORKING, SOFTWARE & WEB DEVELOPMENT BY NETCAMP

The event was designed to afford students the opportunity to acquire practical experience and exposure to real-world work environments through summer training. The session encompassed a range of topics, including programming languages, software development, web development, application development, and various data science tools.



Summary

DATE	TRAINING / SESSION	PARTICIPANTS
09 /Jan/2023	Web Application by Softpro	84
11 /Jan/2023	Training Program by Netcamp	77
06/Feb /2023	Session on Cyber Crime by U.P Police	50
31/mar/2023	Workshop on ML using Python by industry	46
08/may/2023	Workshop on AWS at MONGODB by Industry	63
26/may/2023	Knowledge Session on Regional Rail by RAPIDX Team	130

KNOWLEDGE SHARING SESSION



AWARENESS SESSION ON CYBER CRIME BY UTTAR PRADESH POLICE

"Furnished students with a comprehensive comprehension of the risks and perils linked to cybercrime. The presentation delved into subjects such as phishing, identity theft, ransomware, and hacking, affording students a comprehensive insight into the various facets of cybercrime. Furthermore, the experts deliberated on the significance of password management, software updates, and other precautionary measures that individuals can employ to fortify their defense against cybercrime."

WORKSHOPS

HANDS ON WORKSHOP ON CLOUD WITH AWS AT MONGODB BY CLOUD ENGINEER FROM INDUSTRY

"The principal aim of the event was to furnish students with practical experience and valuable insights into AWS cloud services. He introduced students to the foundational AWS services. Attendees were exposed to real-world use cases and case studies that exemplified the successful application of AWS services across diverse industries."



HANDS ON WORKSHOP ON MACHINE LEARNING USING PYTHON

The workshop provided students with a hands-on training on various aspects of innovation design using Python with Machine Learning tools. The workshop was designed to provide students with an in-depth understanding of machine learning using Python.



KNOWLEDGE SHARING SESSION BY REGIONAL RAIL BY RAPIDX TEAM

This session bestowed upon the students invaluable insights regarding the incorporation of technology within transportation operations. The event symbolized a noteworthy achievement in the pursuit of cultivating a group of data and technology experts capable of delivering substantial contributions to the improvement of efficiency and effectiveness within regional rail systems.



INDUSTRIAL VISITS

AI BASED PLANT MOON BEVERAGES



The CSE (DS) department of RKGIT, Ghaziabad organized an industrial visit at Coca Cola Happiness Factory Moon Beverage Ltd., Greater Noida(U.P.) for the second year students of CSE(DS). The students got information regarding various applications of modern AI technologies in the industries, how a single person would operate multiple machines, and various industrial experiences.



Conducted a Industrial visit at Appwars Technologies, Sector 2 Noida, Uttar Pradesh of around 20 Students. Learnings covered in visit: (i) Market Scope of Data Science in Industry 4.0 (ii) Technologies and applications of Data Science (iii) Knowledge about Internship Projects.

ASSOCIATE EVENTS

PUSHPAK - THE FLYING CLUB



Department of CSE(DS) is associated partner in all 3 events of PUSHPAK - The Flying Club Events:

- Pushpak Workshop (22/09/22)
- Pushpak Drone Event (14/10/2022)
- Pushpak Club Launching (22/12/2022)

Dr. Preeti Sharma (Faculty Convenor), Neha Paliwal (Faculty Coordinator), Tarandeep Singh Gujral (President), Poorva Tyagi (Designing Lead), Vishesh (Mgmt Lead), Uchit Parashar (Core Member) and Aman Gupta (Core Member) are the members in the club.

NATIONAL SCIENCE DAY



Emphasized the importance of science in addressing global challenges such as climate change, health, and energy. The event also fostered a culture of innovation and scientific inquiry among the students. The SAC team and Data Quest Club did a commendable job in organizing the event and making it a memorable experience for all attendees.

MONTAGE



आरकेजीआईटी ने साइबर अपराध पर विशेषज्ञ वार्ता का किया आयोजन

आयोजन
 फेकल्टी कोऑर्डिनेटर मानस त्रिपाठी व पूजा चौधरी ने इस कार्यक्रम का संचालन किया।
 अग्रवाल संवाददाता
 गाजियाबाद। आरकेजीआईटीके डाटा साइंस विभाग ने साइबर अपराध पर विशेषज्ञ वार्ता का आयोजन किया। इस बातचीत का माहत्वपूर्ण उद्देश्य युवाओं को वर्तमान युग में आरकेजीआईटी में साइबर अपराध पर वार्ता का आयोजन गाजियाबाद (सि.) अरकेजीआईटीके डाटा साइंस विभाग ने साइबर अपराध पर विशेषज्ञ वार्ता का आयोजन किया। डाटा साइंस की एक्सपर्ट डॉ. जितेंद्र शर्मा ने कहा कि बदलाती तकनीक के कारण हमारी सुरक्षा हमारे लिए चुनौतीपूर्ण है और इस तरह की साइबर खतरों को सुरक्षित रखने के लिए बहुत जरूरी है। साइबर अपराध नामा के एक्सपर्ट अमित कुमार पाठव और उनकी साइबर सेल टीम ने साइबर धोखाधड़ी के बारे में जानकारी देने के लिए सुझाव और बचाव के तरीकों की जानकारी दी। इस अवसर पर समूह आरकेजीआईटीके डाटा साइंस विभाग डॉ. लक्ष्मण प्रसाद, कार्यक्रम निदेशक डॉ. दीपक चौधान, टीम अकादमिक डॉ. आरके शर्मा, डॉ. नमन शर्मा, डॉ. सुनील चंद्र श्रीवास्तव, डॉ. वी. वेंकटेश और उपस्थित रहे। फेकल्टी कोऑर्डिनेटर मानस त्रिपाठी व पूजा चौधरी ने कार्यक्रम का संचालन किया।



डेटा साइंस में बनाना चाहते हैं करियर ये है एलिजबिलिटी

डेटा साइंस में बनाना चाहते हैं करियर ये है एलिजबिलिटी
 डेटा साइंस में बनाना चाहते हैं करियर ये है एलिजबिलिटी
 डेटा साइंस में बनाना चाहते हैं करियर ये है एलिजबिलिटी



STUDENT CORNER

IMAGE CAPTIONISTS



Wherever life takes us, these college memories and friendships will forever be our anchor



Chasing sunsets in the heart of the city's hustle, finding beauty in the midst of the metro's chaos.

POET

आज कन्धा बहुत दर्द कर रहा था, जीवन में धीमा भी हो गया हूँ। तो इसकी वजह मैंने पापा से जाननी चाही, तो उनकी आँखों ने बताया कि बेटे, “यह उन कंधों का दर्द नहीं, बल्कि उस भार का दर्द है। जो हमने तुम्हारे कंधों पर उम्मीदों के भार को हटाकर, उन पर भरोसे के भार को रखा है।”
 Ankit Gupta 4th Year

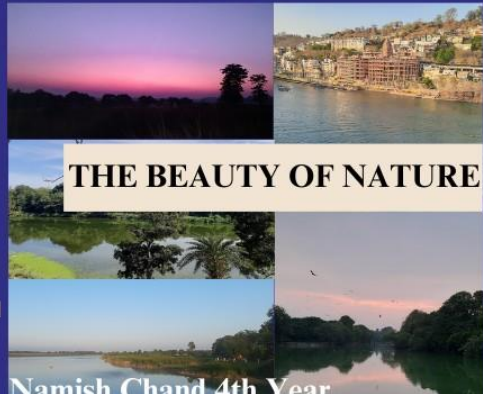
Dhruv Atri 4th Year

Vanshika Jindal 4th Year

Wish I hadn't lost myself
 Being crazy as early as early as I was,
 Wish I had the wisdom to recognize
 What's right at that time.
 Wish I could see any hope but there
 Was not any rope.
 The time people say was there best
 I have it to worsen myself.
 Wish I had remained what I was
 And not had changed myself to
 Suit the box I inside was.

I was sitting and realizing that
 What I changed myself because
 Of the many people around myself.
 Emotions, thoughts are quite cool at
 That time

Being positive is the best way you can
 Live, spreading positivity is a thing
 We all should never leave.
 Today I do it to enjoy the
 essence, just by being true to my
 sense.



Namish Chand 4th Year

WRITER

जब रास्ता था धाम का मंजिल का भी
 था न पता,
 जो चांद सी हल्की धुंधी देके दिलासा
 हर पल।
 फिर रात आई भोजी सी मैं बला दूर दर
 भटकते,
 प्युंया दिया उस खोर तक मैं हाथ
 उसने पकड़के,
 ऐसा लगा की रात पे इस खोर पे एक
 जगह था,
 देखूं मैं अपना बंद होंदम,
 अगला दिन कभी भी आया था
 पर चाहूँ इस हंसल की उस खुदा को
 नामगुरु थी,
 तो बरके मायाजाव उसने लोहूँ पे मेरी
 दोली।
 बस बाद है वो दुबल सलत मुझे ओ उस
 अजानान को
 जो बनके आई चाँद मैं हर-अंधेरी धाम
 को।
 माना की नासा चांद से मेरा न उजब है
 कब्रस्त,
 पर है तो मेरा प्यार अजब भी चाँदनी सा
 हवा।

की किताब
 एक दिन खोली खदा की किताब को
 हंसल गाली कुछ अजब चकर आए
 पौर से देखा उन उभरी अक्षरों को
 तो उनसे कुछ दौलत पुराने नजर आए।
 अब तो मिलना नहीं होना इन पदों से,
 कुछ सहरों के गुलाब हो गए।
 यादें और पृथ्वी की,
 तो सारे चेहरे जिन्दगी में रहेआम हो गए।
 बिल्लने मने की भी वो जिल्ली थी,
 जिसने भी पड़ी बस दोस्तो की।
 आज इन पदों को देखकर फिर इस किताब को दोहराने का
 मन करता है।
 बस अब खली चांद है की एक बक था
 जब हर दिन, हर पक्षी और हर धाम
 होली थी बस दोस्तो के नाम

Hariom Gupta 4th Year

SKETCHER



Deepak Gupta 4th year

CURRENT AFFAIR

ADITYA - L1

FIRST INDIAN MISSION TO STUDY THE SUN

- Will be launched during 2019-2020 timeframe by PSLV-XL from Sriharikota
- Aditya - L1 will be inserted in a halo orbit around the Lagrangian point 1 (L1) of the Sun-Earth system, which is 1.5 million km from the Earth
- It will provide observations of Sun's Photosphere (soft and hard X-ray), Chromosphere (UV) and corona (Visible and NIR)
- In addition, particle payloads will study the particle flux emanating from the Sun and reaching the L1 orbit, and the magnetometer payload will measure the variation in magnetic field strength at the halo orbit around L1

