i - Aabhyantar

Newsletter of the Department of CSE & IT, JIIT, Noida

Department of Computer Science & Engineering and Information Technology

Jaypee Institute of Information Technology, Noida

(Deemed to be University under Section 3 of UGC Act 1956)

Editors: Prof. Mukesh Saraswat, Dr. Vikash, Dr. Anubhuti Roda Mohindra, Dr. Shweta Rani, Ms. Anuradha Surolia

i-Abhyantar

Inside ...

i-Abhyantar

Prof. Vikas Saxena
Director & Head (CSE & IT)

I am delighted and excited to present you the fifth issue of 'i-Aabhyantar', the newsletter of the CSE&IT Department, at Jaypee Institute of Information Technology (JIIT), Noida. It's a matter of pride and satisfaction that the department, with 130 faculty members and 130 Ph.D. scholars, is successful in achieving the prime goal of a university to create and disseminate knowledge. This newsletter is a small step to display various activities, academic achievements & success stories of our students and faculty. I strongly believe that 'i-Aabhyantar', will provide another platform for our students and stakeholders to get enlightened and participate in the growth of the department. I am very thankful to Prof. Mukesh Saraswat and editorial team members, Dr. Vikash, Dr. Anubhuti Roda Mohindra, Dr. Shweta Rani, and Ms. Anuradha Surolia, who worked very hard on this newsletter.

MESSAGE OF HOD

The Department of Computer Science & Engineering and Information Technology (CSE&IT) is thrilled to present the fifth edition of its departmental newsletter, "i-Aabhyantar". This issue encapsulates the department's achievements and strides from January to July 2023.

Under the visionary leadership of Founder Chairman Shri Jaiprakash Gaur, Hon'ble Chancellor Shri Manoj Gaur, Hon'ble Pro-Chancellor S. C. Saxena, and Hon'ble Vice-Chancellor Prof. B. R. Mehta, the CSE&IT department continues to innovate and excel. In today's digital age, computer science is pivotal in building a sustainable future and elevating living standards through economic and technological progress. Our department is at the forefront of this transformation, driving innovation and contributing significantly to this new era.

"i-Aabhyantar" serves as a global platform to disseminate the department's updates, statistics, and accomplishments. This newsletter offers a comprehensive overview of the semester's advancements and activities.The CSE&IT department remains committed to pushing boundaries, achieving new heights, and fostering exponential growth. "i-Aabhyantar" is dedicated to providing in-depth coverage of our journey, including our future endeavors.

With Regards,

Editors

Vision and Mission of Institute

Vision

To become a Centre of Excellence in the field of IT & related emerging areas education, training and research comparable to the best in the world for producing professionals who shall be leaders in innovation, entrepreneurship, creativity and management.

Mission

1. To develop as a benchmark University in emerging technologies.

2. To provide state-of-the-art teaching learning process and R&D environment.

3. To harness human capital for sustainable competitive edge and social relevance.

Vision and Mission of CSE&IT Department

Vision

To be a Centre of Excellence for providing quality education and carrying out cutting edge research to develop future leaders in all aspects of computing, IT and entrepreneurship.

Mission

1. To offer academic programme with state-of-the-art curriculum having flexibility for accommodating the latest developments in areas of computer science and IT.

2. To conduct research and development activities in contemporary and emerging areas of Computer Science & Engineering and IT.

3. To inculcate IT & entrepreneurial skills to produce professionals capable of providing socially relevant and sustainable solutions.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS) OF B.TECH. (CSE)

Programme Educational Objectives

PEO 1: To provide core theoretical and practical knowledge in the domain of Computer Science & Engineering for leading successful career in industries, pursuing higher studies or entrepreneurial endeavours.

PEO 2: To develop the ability to critically think, analyze and make decisions for offering techno-commercially feasible and socially acceptable solutions to real life problems in the areas of computing.

PEO 3: To imbibe lifelong learning, professional and ethical attitude for embracing global challenges and make positive impact on environment and society.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS) OF B.TECH. (IT)

PEO 1: To impart core theoretical and practical knowledge of Computer Science & Engineering and emerging Information Technologies for leading successful career in industries, pursuing higher studies or entrepreneurial endeavours.

PEO 2: To develop the ability to critically think, analyze, design and develop IT based solutions.

PEO 3: To imbibe the life-long learning and understanding of ethical values, their duties toward environmental issues and sensitize them toward their social responsibility as IT professional.

i-Abhyantar

Recognition

Dr. Deepika Varshney
Research Excellence Award 2023
Delhi Technical University

Dr. Shailesh Kumar
Published Patent
An Artificial Intelligence-based
Smart Hand Sanitization System
for Elderly

PhD Awarded

❖ **Ms. Neerja Negi**

  ➢ **Title** – QoS based Efficient Web Services Selection
  ➢ **Awarded on** – January 2023
  ➢ **Supervisor** – Prof. Satish Chandra

❖ **Ms. Shweta Kaushik**

  ➢ **Title** – Improving Various Data Access Control Technique to Enhance security in Cloud Computing
  ➢ **Awarded on** – April 2023
  ➢ **Supervisor** – Prof. Charu Gandhi

i-Abhyantar

Institute-Aided Project

- ❖ *Recommendation System for automatic generation of adaptive course concept sequence for online learners*

  By Prof. Shikha Mehta

- ❖ *Chatbots: From ELIZA to AI-Powered Assistants*

  A Journey Through Evolution

  By Dr. Pulkit Mehndiratta

- ❖ *E-sports and stress management for differently abled people*

  By Prof. Manish K. Thakur, Dr. Suma Dawn, Dr. Ashish Mishra, Dr. Ankit Vidyarthi, Mr. Prashant Kaushik

- ❖ *Context-aware digital image enhancement of X-ray film image*

  By Dr. Suma Dawn

- ❖ *Reliable classification of cyclic alternating pattern (CAP) for sleep disorders*

  By Dr. Megha Agarwal

Title: Holistic Perspective of Life from the Bhagavat Geeta

Speaker: Dr. Dhananjay Mani Tripathi, Assistant Professor, Jamia Millia Islamia, New Delhi

Organized: Prof. Dharamveer Singh Rajpoot, Student Counselling Centre of JIIT Noida

i-Abhyantar

Title: Importance of Time Management in Student/ Professional Life
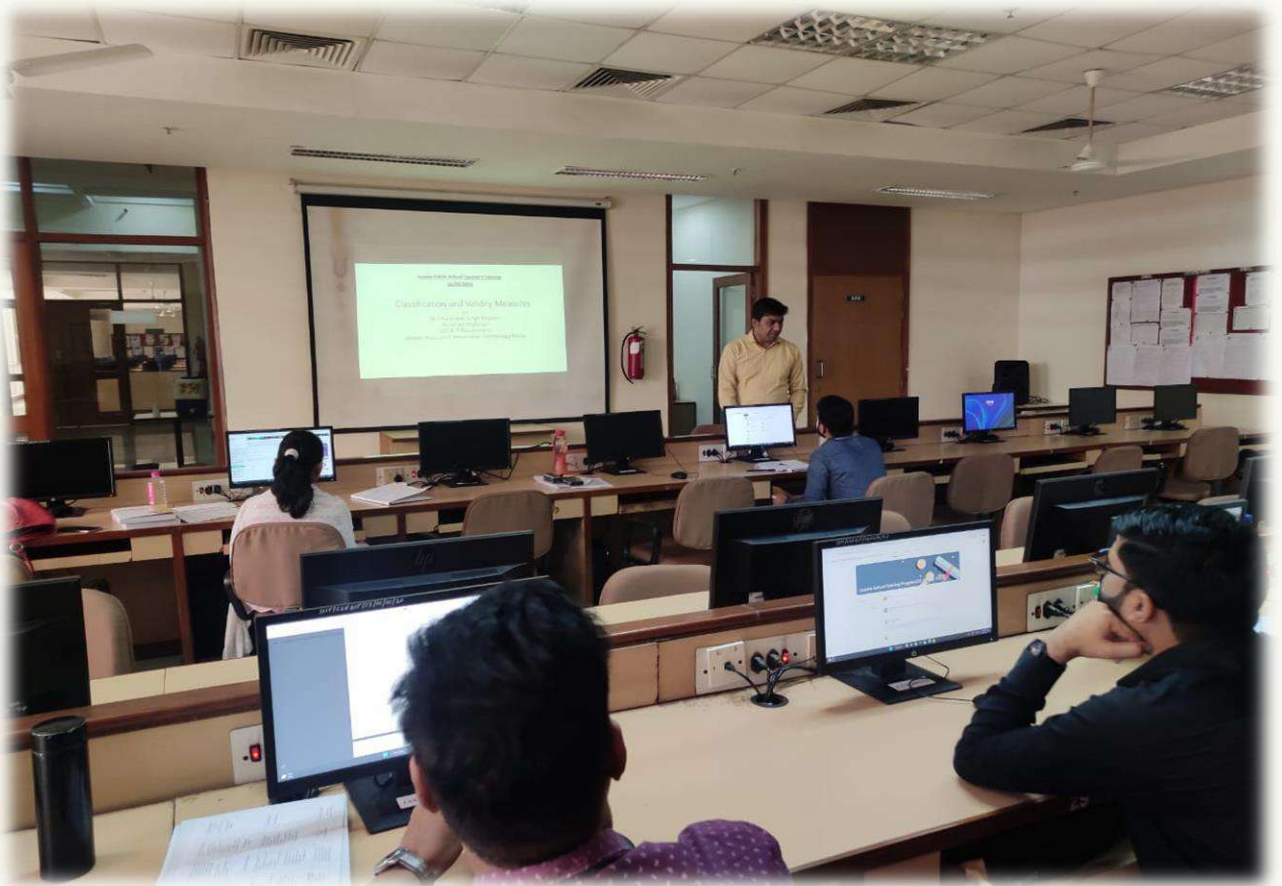
Speaker: Dr. Rakesh Prakash, Associate Professor, Amity School of Communication

Organized: Prof. Dharamveer Singh Rajpoot, Student Counselling Centre of JIIT Noida

Training Programs

2nd Jaypee Education Synergy Teacher's Training Program for Post-Graduate Teachers

Speaker: Prof. Dharamveer Singh Rajpoot

i-Abhyantar

NetSim Standard Version

NetSim is a powerful network simulation software that enables users to create, simulate, and analyze complex network scenarios. It is a widely used tool for designing and testing networks, protocols, and applications in a virtual environment. NetSim provides an interactive and user-friendly interface that allows users to build network models using pre-built components, customize network parameters, and visualize the network topology. On the account of purchase of NetSim Standard version by

JIIT University purchased of NetSim Standard version for academic and research purposes, a training program was organized in collaboration with Tetcos Systems, Bangalore via virtual mode, from 03-05 April 2023 to faculty members of CSE/IT to create awareness of the tool usage for conducting research activities.

Resource Person:

❖ **Mr. Amruth Gudigar, Developer and Application Engineer, TETCOS LLP**

❖ **Ms. Nidhi Mariswamy, Developer and Application Engineer, TETCOS LLP**

Training Programs

Events

Artificial Intelligence Tools

Faculty Development Program

Department of Computer Science Engineering and Information Technology, Jaypee Institute of Information Technology, Noida, exploring the machine learning approach for different areas of interest. In this direction, Prof Krishna Asawa and the team have successfully organized a six-day Faculty Development Program on Artificial Intelligence Tools from June 28 –July 3, in Online mode. The FDP explores different dimensions related to fundamentals of AI Tools, Apache Spark, Smart Sensing based Approaches for Supporting Independent Living of the Elderly, Reinforcement Learning for Optimization Problems, Machine Learning and its application in 5G Networks, AI Tools: PyTorch and ChatGPT, TensorFlow and Keras field along with the basic knowledge of every area.

The FDP on AI Tools will empower faculty members with the knowledge, skills, and confidence to leverage AI tools effectively in their academic and professional pursuits, ultimately fostering innovation and advancing AI adoption in education and research.

Research Accomplishments

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❖ Rathi, Megha, Adwitiya Sinha, Siddhant Tulsyan, Avishka Agarwal, and Anushka Srivastava. "Assessing Mental Health Crisis in Pandemic Situation with Computational Intelligence." Informatica 47, no. 1 (2023).

❖ Shivani Aggarwal and Kavita Pandey, "Early identification of PCOS with commonly known diseases: Obesity, diabetes, high blood pressure and heart disease using machine learning techniques", Expert Systems with Applications, Vol. 217, Elsevier, January, 2023.

❖ Tiwari, T., Saraswat, M. A new modified-unet deep learning model for semantic segmentation. Multimed Tools Appl 82, 3605–3625 (2023).

❖ Savita, Verma, A. Eigen Vector Centrality (EVC) Routing for Delay Tolerant Networks: A Time Associated Matrix-Based Approach. Wireless Pers Commun 128, 1217–1233 (2023).

❖ Kavita Pandey, "A Deep Learning based Solution (Covi-DeteCT) Amidst COVID-19". Current medical imaging, vol. 19, Issue 5, pp. 510–525, 2023. Bentham Science Publishers, Indexed in SCIE, Scopus.

❖ Kumar V. Altahan B. R., Rasheed T., Singh P., Soni D., Alsaab H. O., Ahmadi F., "Improved UNet Deep Learning Model for Automatic Detection of Lung Cancer Nodules" Journal of Computational intelligence and Neuroscience

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Research Accomplishments

❖ Dixit, Ankit, and Shikha Jain. "Contemporary Approaches to Analyze Non-stationary Time-series: Some Solutions and Challenges." Recent Advances in Computer Science and Communications (Formerly: Recent Patents on Computer Science) 16.2 (2023): 61-80.

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❖ S. Choudhary and B. Saxena, "Image-Based Crop Disease Detection using Machine Learning Approaches: A Survey", International Journal of Performability Engineering. Vol. 19 Issue 2, p121-132, 2023.

❖ Gupta, V., Gupta, C., Rubalcaba, L., Duc, A. N., Wang, X., & Butlewski, M. (2023). Foreign Embassies Internationalization support for Small and Medium-Sized Enterprises: Need to balance Innovation Strategy & Innovation Support Policies. IEEE Engineering Management Review.

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❖ Vijh, S., Saraswat, M. & Kumar, S. Automatic multilevel image thresholding segmentation using hybrid bio-inspired algorithm and artificial neural network for histopathology images. Multimed Tools Appl 82, 4979–5010 (2023).

❖ Malik, A., & Kushwah, R. (2023, February). Energy-efficient scheduling in IoT using Wi-Fi and ZigBee cross-technology. The Journal of Supercomputing, 1-30

i-Abhyantar

❖ Jain, Siddhant, P. Raghu Vamsi, Yashi Agarwal, and Jayant Goel. "CodeBlockS: Development of Collaborative Knowledge Sharing Application with Blockchain Smart Contract." International Journal of Information Engineering and Electronic Business 14, no. 1 (2023)

❖ Gupta, V., Rubalcaba, L., & Gupta, C. (2023). Connecting Dots Between Entrepreneurs, Research Publishers, and Software Engineering Researchers: An Outcome of Mixed Methods Empirical Research. IT Professional, 25(1), 68-80.

❖ Gupta, S., & Bansal, H. (2023). Trust evaluation of health websites by eliminating phishing websites and using similarity techniques. Concurrency and Computation: Practice and Experience, e7695.

❖ U.R. Saxena, T. Alam, "Role-based access using partial homomorphic encryption for securing cloud data", International Journal of System Assurance Engineering and Management, volume 14, 950–966 (2023).

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❖ Padha, A., Sahoo, A. MAQML: a Meta-approach to Quantum Machine Learning with Accentuated Sample Variations for Unobtrusive Mental Health Monitoring. Quantum Mach. Intell. 5, 17 (2023).

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Research Accomplishments

- Garg, Sherry, and Rajalakshmi Krishnamurthi. "A CNN encoder decoder LSTM model for sustainable wind power predictive analytics." Sustainable Computing: Informatics and Systems 38 (2023): 100869.

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- K. Ajmera, T. Kumar Tewari. "SR-PSO: Server residual efficiency aware particle swarm optimization for dynamic virtual machine scheduling" Journal of Supercomputing, 2023

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❖ Dixit, A. and Thakur, M.K., "RVM-MR image brain tumour classification using novel statistical feature extractor," International Journal of Information Technology (Singapore), 15, 2395–2407 (2023).

❖ Sabharwal, S. M., & Aggrawal, N. (2023). A Survey on Information Diffusion over Social Network with the Application on Stock Market and its Future Prospects. Wireless Personal Communications, 1-27.

❖ S. Porwal, and S. Mittal, 2022, "Authority revocation scheme for MA-CP-ABE-based secure communication in IoMT ecosystem", International Journal of Applied Cryptography, Inderscience, DOI: 10.1504/IJACT.2022.130846.

❖ Gupta, V., Gupta, C., Swacha, J., & Rubalcaba, L. (2023). Prototyping technology adoption among entrepreneurship and innovation libraries for rural health innovations. Library Hi Tech.

❖ Almuzaini, K.K., Dubey, R., Gandhi, C., Taram, M., Soni, A., Sharma, S., Sánchez-Chero, M. and Carrión-Barco, G., 2023. Secured wireless sensor networks using hybrid Rivest Shamir Adleman with ant lion optimization algorithm. Wireless Networks, pp.1-19.

❖ Chakraverti, S., Agarwal, P., Pattanayak, H. S., Chauhan, S. P. S., Chakraverti, A. K., & Kumar, M. (2023). De-noising the image using DBST-LCM-CLAHE: A deep learning approach. Multimedia Tools and Applications, 1-26.

❖ N. Jain, and S. Mittal, "Review of Computational Techniques for Modelling Eco-Safe Driving Behavior", International Journal of Automotive and Mechanical Engineering, 20(2), 10422-10440., 2023.

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❖ B. Saxena, M. Gaonkar and S.K. Singh, "Study of the effectiveness of wavelet genetic programming model for water quality analysis in the Uttar Pradesh region," Environ Monit Assess, vol. 195, article 1010, July 2023.

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❖ Mehta, S. Enhanced SFLA with spectral clustering based co-evolution for 24 constrained industrial optimization problems. Multimed Tools Appl 82, 17853–17878 (2023).

❖ R. K. Gupta, A. Jain, R. Kumar, and R. K. Pateriya, "Capturing Uncertainties Through Log Analysis Using DevOps", *International Journal of Data Mining, Modelling and Management*, vol. 15, no. 1, pp. 53-78, 2023.

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❖ Mehta, S. Enhanced SFLA with spectral clustering based co-evolution for 24 constrained industrial optimization problems. Multimed Tools Appl 82, 17853–17878 (2023).

❖ Sharma A, Kaur P. A Survey of Distributed Data Storage in the Cloud for Multitenant Applications. International Journal of Performability Engineering. 2023 Mar 1;19(3).

❖ Bansal, H., Jaiswal, S., & Agarwal, S. (2023). Brain Data Visualization and Prediction of ADHD Disease. European Chemical Bulletin, 12(4), 1420-1445

❖ B. Saxena, V. Saxena, N. Anand, V. Hassija, V. Chamola and A. Hussain, "A Hurst-based diffusion model using time series characteristics for influence maximization in social networks," Expert Systems, vol. 40, issue 9, November 2023.

❖ Arora, A., Hassija, V., Bansal, S., Yadav, S., Chamola, V., & Hussain, A. A novel multimodal online news popularity prediction model based on ensemble learning. Expert Systems, e13336.

Research Accomplishments

Research Accomplishments

❖ Somya Jain, Puneet Jaiswal, Arpit Jain, Adwitiya Sinha, Ankita Gupta, "Analyzing Influential Impact of Online Trends on Social Media Channels," IEEE 8th International Conference on Signal Processing and Communication (ICSC), 01-03 December 2022, Jaypee Institute of Information Technology, Noida, Uttar Pradesh, India, pp. 49-53, 2022 (Scopus Indexed)

❖ Pushpendra Kumar Rajput, Aarti, and Raju Pal. "Genetic Algorithm-Based Clustering with Neural Network Classification for Software Fault Prediction." In Proceedings of International Conference on Data Science and Applications: ICDSA 2022, Volume 1, pp. 399-414, Lecture Notes in Networks and Systems, vol 551, Singapore: Springer Nature Singapore, Feb. 2023.

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❖ S. Srivastava, Y. Sharma, A. Prakash, and S. Gupta, "Deep learning based land cover assessment using high resolution satellite data," in 8th International Conference on Computing in Engineering and Technology (ICCET 2023), 2023.

Research Accomplishments

❖ Kavita Pandey, Dhiraj Pandey, Rijwan Khan, "Chapter six - A Medical Assistant for the Visually Impaired", in book titled as "Advancements in Bio-Medical Image Processing and Authentication in Telemedicine", IGI Global, February, 2023. pp. 91-110.

❖ S. Mittal. "A review of machine learning techniques in cybersecurity and research opportunities". Machine Learning for Cyber Security, edited by Preeti Malik, Lata Nautiyal and Mangey Ram, Berlin, Boston: De Gruyter, 2023, pp. 91-116.

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❖ Aggarwal, K., Arora, A., & Azzopardi, J. (2023). Breast Cancer Classification and Survival Prediction Using Proteomic Analysis. In Novel Developments in Futuristic AI-based Technologies (pp. 123-138). Singapore: Springer Nature Singapore.

❖ H. Mehta, R. K. Gupta, A. Jain, S. K. Bharti, and N. Kunhare, "AI-Based Plant Disease Detection and Classification Using Pretrained Models", In: *Artificial Intelligence Tools and Technologies for Smart Farming and Agriculture Practices*, pp. 219-232, 2023. IGI Global, USA.

i-Abhyantar

Books

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❖ Mukesh Saraswat, Harish Sharma, Karm Veer Arya, eds. Intelligent Vision in Healthcare. Springer Verlag, Singapore, 2023.

❖ Rajeev Kumar Gupta, Arti Jain, John Wang, Santosh Kumar Bharti, and Samir Patel, eds. Artificial Intelligence Tools and Technologies for Smart Farming and Agriculture Practices. IGI Global, USA, 2023.

Hackathon

OSDHack 2023 is an online hackathon being organized by the Open Source Developers Community of JIIT, Noida. It is a 48-hour-long congregation of like-minded hackers and tech enthusiasts where participants will brainstorm and build on their ideas. 900 students participated in the event.

Student Technical Event

Students Corner

- ❑ **Pranav Kumar got the Certificate of Excellence (3rd position), Manfest Varchasva, inter-university.**

- ❑ **Highest Salary Package Rs 82.89 Lacs by Atlassian (01 Offer)**

- ❑ **719 total offers**

- ❑ **18 companies offer packages above 25 Lacs to 82.89 (59 offers)**

- ❑ **38 companies offer salary Packages of Rs 12 to 24.99 Lacs (97 Offers)**

- ❑ **68 companies with packages 6 to 11.99 (340 Offers)**

Tanya Pandhi Joined the M.S. program at the University of Southern California, California.

Karan Tejwani Joined the M.S. program at Rochester Institute of Technology, NEW York, USA.

Vatsal Agarwal Joined the M.Tech. program at IIT Delhi.

Alumni Meet April 2023

Alumni Meet

Reality-A poetry about overthinking that leads to confusion in choosing what's right

I still don't know what the reality is,

Reality to every topic that I give an angle.

I just keep piling thoughts over it,

Opinions by opinions I just end up creating a tangle

"Why and why not" These are still unanswered,

The deeper I go, the more confusing it gets,

somewhere I know the answers to questions are very clear,

But this soul stays quiet, its judgement that i fear.

And then I question, why me?

Just a bunch of adjectives, is that all I see?

Letting the demons exploit those little cracks of insecurity

Unable to distinguish, that I was a gem and not an impurity

It's terrifying,

How a perception, shadowless rose up in this mind

While hidden in the shards of distress,

It was A Reflection that I couldn't find.

For these storming thoughts have left me confused

I try to reach a conclusion, logic remains diffused

No one truly understands, the complexities of this stream

For it remains to be an unexplored ground, it remains to be a dream

So I chose to keep going with this untamed flow

For these words will be unreal in the real world glow

For once again this cycle shall repeat

And happily again I'll accept defeat..

So while I wish to define this mental state

I can't offer an explanation to this never ending debate

At least I know I am not on the wrong side of the road

At least hope can counter my ever increasing load

So I let my mind take control over this rift

For this reality my friends can be infectious.

**Manas Tripathi
Batch 2020**

Literary

Gajal

tu to ek banī hī be-misāl haiñ

**Sarthak Chaturvedi
Batch 2020**

tu to ek banī hī be-misāl haiñ
tere ek dīdār se merā hogā kyā

tasaʙvūr jo terā to haiñ sahārā zindagī kā merī
jayenge jo dūr tum se to ḳhvāboñ kā mere hogā kyā

tum se the silsile to zindagī ābād thī
tumhāre ba.ad is vāqiye kā hogā kyā

main to sochā kartā har din har rāt is bāt ko
ke jab tu hogā merā tab vo lamhā hogā kyā

ke guzarte manzar se pūchā kartā main har vaqt
kyā dil meñ bhī us ke kahīñ ḳhayāl bhī merā hogā kyā

roke to bhī nahīñ rukte ashq jo ab
ke jā chuke ko phir pukār ke hogā kyā

 terī āñkhoñ meñ to merī har ḥasrat bahā kartī haiñ
in hī āñkhoñ meñ hī ḍūbe rahe to kinārā kahīñ hogā kyā

 kyuuñ jo tu kahtī haiñ 'sach' se ulfat mumkin nahīñ
ke batā ai hasīn bin tere jīnā bhī kabhī jīnā hogā kyā

Department of Computer Science & Engineering and Information Technology

Jaypee Institute of Information Technology, Noida

(Deemed to be University under Section 3 of UGC Act 1956)