



## Workshop Report

on

### “AI Tools for Research Excellence”

The Department of Computer Science & Engineering, Vikrant University, Gwalior, successfully conducted an online workshop titled “AI Tools for Research Excellence” on 29/03/2026. The workshop was organized with the objective of enhancing research capabilities of faculty members through the effective use of Artificial Intelligence tools. The session was conducted under the guidance of Pro Vice Chancellor Dr. Atul Kumar and Director Dr. Anand Singh Bisen. The workshop featured Dr. Preeti Mulay, Deputy Director-Academics at SIT Nagpur and Professor, Symbiosis Institute of Technology, Pune, as the keynote speaker, who delivered an insightful and hands-on session on various AI tools for research. Faculty members from Vikrant University, Gwalior, and Vikrant Group of Institutions, Indore actively participated in the session. The initiative served as a significant step towards strengthening AI-driven research practices and promoting technology-enabled academic excellence within the institution.

<b>Academic Year</b>	2025-2026
<b>Activity Driven By</b>	Department of Computer Science & Engineering, VU, Gwalior
<b>Quarter</b>	3rd
<b>Activity Name</b>	Workshop on AI Tools for Research Excellence
<b>Program Theme</b>	Enhancing Research Excellence through Artificial Intelligence Tools
<b>Program Starts Date</b>	29/03/2026
<b>Program Ending Date</b>	29/03/2026
<b>Number of participants</b>	96 Faculty members from Vikrant University, Gwalior, and Vikrant Group of Institutions, Indore actively participated in the workshop.
<b>Mode of Delivery</b>	Online (Google Meet)
<b>Resource Person</b>	Dr. Preeti Mulay, Deputy Director (Academics) at SIT Nagpur, and Professor at Symbiosis Institute of Technology, Pune
<b>Objectives</b>	The primary objective of the workshop was to familiarize faculty members with advanced AI tools and platforms that can significantly enhance research quality, efficiency, and innovation. The session also aimed to provide hands-on exposure to AI-based tools for data analysis, literature review, research writing, and academic productivity.
<b>Benefits in terms of learning/skill/knowledge development</b>	<ul style="list-style-type: none"><li>• Understanding the role of AI tools in research excellence and academic productivity.</li><li>• Hands-on exposure to AI-powered data analysis and visualization tools.</li></ul>



	<ul style="list-style-type: none"><li>• Knowledge of authentic dataset repositories and research resources.</li><li>• Practical insights into AI-assisted literature review and research paper analysis.</li><li>• Awareness of ethical considerations and data security while using AI tools.</li><li>• Development of skills in generating research outputs such as graphs, reports, and methodologies using AI platforms.</li></ul>
<b>Program Coordinator</b>	Dr. Atul Kumar, Pro Vice Chancellor, VU, Gwalior Dr. Anand Singh Bisen, Director, VU, Gwalior

## **Overall Report of the Activity**

**Date:** 29th March, 2026

**Subject:** Online Workshop on AI Tools for Research Excellence

### **Introduction:**

The online workshop on “AI Tools for Research Excellence” was conducted to strengthen faculty competencies in utilizing Artificial Intelligence tools for academic research and professional work. The session focused on practical applications of AI tools in data analysis, literature review, research writing, and visualization, thereby aligning with modern research requirements and digital transformation in academia.

### **Participants:**

96 Faculty members from various Schools of Vikrant University, Gwalior, and Vikrant Group of Institutions, Indore actively participated in the workshop. The session witnessed enthusiastic engagement, interactive discussions, and active involvement throughout.

### **Description:**

The workshop was highly interactive and practice-oriented, where the resource person demonstrated multiple AI tools and platforms with real-time examples and datasets.

### **Key highlights of the session included**

- **Data Squirrel.AI:** Demonstrated as a multidisciplinary, user-friendly, and secure tool for data analysis. The speaker showcased its ability to generate up to 16 types of graphs using an HR dataset. Participants learned how to upload, edit, and analyze datasets effectively.
- **UCI Machine Learning Repository:** Introduced as a reliable dataset source that also provides sample research papers associated with datasets, supporting academic research validation.
- **IndiaAI.gov.in:** Presented as a platform offering datasets, case studies, and domain-specific AI resources relevant to Indian research ecosystems.
- **Julius.AI:** A powerful AI tool demonstrated for analyzing scientific and business datasets. It can automatically generate Python code, tables, graphs, reports, and even research methodologies. The speaker highlighted its free version limitations and data deletion policy after one hour.



- **Raw Graphs:** Introduced as a free, lifetime tool for creating diverse and customizable visualizations for research data.
- **Connected Papers:** Demonstrated as an advanced literature review tool that generates visual graphs of research papers based on keywords, categorizing them into prior and derivative works using citation-based analysis.
- **Scholarly Review:** Explained as an AI-powered reviewing assistant that evaluates research papers by identifying strengths, weaknesses, and providing structured insights, thereby saving time in peer review processes.
- **WisPaper.AI:** Demonstrated for literature review and research synthesis, particularly useful for Q1 and Q2 publications. The PRISMA AI feature was highlighted for explaining paper inclusion and exclusion criteria.
- **SurveyMonkey:** Introduced as a tool for creating structured questionnaires and surveys for academic purposes.
- Additionally, the speaker emphasized important aspects such as:
  - Avoid uploading sensitive data to unpaid AI tools.
  - Opportunities for PhD scholars to request AI tool access through official communication.
  - The importance of patience while working with AI systems due to backend processing.
  - The potential of AI tools in generating high-quality research papers (SCI/Scopus indexed).
  - The session provided a comprehensive understanding of integrating AI tools into research workflows, making it highly relevant and impactful for faculty members.

#### **Outcome of the Activity:**

- Enhanced understanding of AI tools for research and academic productivity.
- Improved ability to analyze datasets and generate visual insights using AI platforms.
- Strengthened knowledge of literature review tools and research validation resources.
- Increased awareness of ethical practices and data security in AI usage.
- Encouragement to adopt AI-driven methodologies for high-quality research publications.

#### **Conclusion:**

The workshop proved to be highly informative, engaging, and beneficial for all participants. It successfully enhanced faculty awareness and practical understanding of AI tools for research excellence. Such initiatives significantly contribute to faculty development and align with Vikrant University's vision of fostering innovation, research excellence, and technology-enabled learning.

#### **List of Attendees:**

1. Abhinav Pragati
2. Arun Sahu
3. Abhay Singh Rajput
4. Aishwarya Singh
5. Amit Atroliya
6. Anand Kumar Pandey School Of Engg. & Tech. Vikrant University, Gwalior



7. Anushka Solanki
8. Arun Singh Vikrant University, Gwalior, Madhya Pradesh, Bharat
9. Ashish Shrivastava
10. Associate Director - Research
11. Asst. Prof Aartijha
12. Dileep Singh Rajput
13. Dean Academics
14. Devendra Kumbhkar
15. Dhramandra Sharma
16. Dileep Singh Rajput
17. Dipanshu Dongre
18. Dr R. K. Jain
19. Dr Rahul Kushwah
20. Dr Vir Narayan
21. Dr. Chandan Singh Vikrant University, Gwalior
22. Dr. Hirdesh Kumar
23. Dr. Pratibha Jadon School Of Humanities & Culture, Vikrant University, Gwalior
24. Dr. R K Jain "Sir" Group Director
25. Dr. Sandeep Kumar Tiwari
26. Dr. Sachin Kumar Singh School Of Agriculture Science, Vikrant University, Gwalior
27. Gurucharan Singh Saini
28. Hod Mechanical Engg.
29. Harsh Dubey School Of Engg. And Technology, Vikrant University, Gwalior
30. Head Of Institutions, School Of Natural & Applied Sciences, Vikrant University,
31. Hod Dept. Of Humanities And Science
32. Js Dodiya
33. Jitendra Sharma
34. Kartik Kushwah
35. Madhwan Upadhyay
36. Manoj Yadav Admin Dept. Vikrant University, Gwalior
37. Miss Pratigya Darpe Vikrant University, Gwalior
38. Miss Pratiksha Sharma Vikrant University, Gwalior
39. Nagendra Singh Yadav
40. Neelam Choubey
41. Nischay U
42. Nishesh Singh
43. Pharmacy School
44. Prachi Dharmadhikari
45. Prashant Garg G
46. Prashant Garg School Of Engg. Vikrant University, Gwalior
47. Preeti Mulay
48. Principal Vitm
49. Prof. (Dr.) Shashank Swami Vikrant University, Gwalior
50. Prof. Abhilasha Dubey
51. Prof. Alka Yadav Vikrant University, Gwalior, M.P, Bharat



52. Prof. Ashutosh Bansal School Of Pharmacy, Vu, Gwalior
53. Prof. Bulbul Agrawal School Of Engg. And Tech. Vikrant University, Gwalior
54. Prof. Dhruv Sharma Vikrant University, Gwalior, Madhya Pradesh
55. Prof. Dr. Atul Kumaar
56. Prof. Gargi Singhal Dept Of Computer Science, Vikrant University, Gwalior
57. Prof. Girja Shankar Mishra
58. Prof. Harshita Sharma Vikrant University, Gwalior
59. Prof. Madhwan Upadhyay School Of Engineering And Technology, Vikrant University
60. Prof. Naveen Kumar School Of Management And Commerce, Vu, Gwl
61. Prof. Neha Yadav Vikrant University, Gwalior
62. Prof. Pradeep Yadav Vikrant University, Gwalior
63. Prof. Pragati Sharma School Of Hum. & Culture, Vikrant University, Gwalior
64. Prof. Prashant Rao Mulik
65. Prof. Priyanka Narwariya School Of Pharmacy, Vikrant University, Gwalior
66. Prof. Ramu Soni Vikrant University, Gwalior, Madhya Pradesh, Bharat
67. Prof. Shashi Pratap Singh Tomar Vikrant University, Gwalior, Madhya Pradesh, India
68. Prof. Shivangi Sharma
69. Prof. Suneel Rathore Vikrant University Gwalior
70. Prof. Vipin Sharma School Of Pharmacy
71. Prof. Vishal Taretiya Dept. Of Computer Science, Vikrant Univeristy, Gwalior
72. Prof. Vishal Tiwari
73. Pushkar Maheshwari
74. Registrar Vikrant University
75. Ritika Mukati
76. Ritu Sharma
77. Sanjay Sharma
78. Santosh Singh Kushwaha
79. Sharad Gupta
80. Suman Rahul Ahirwar School Of Legal Studies, Vikrant University Mp Bharat
81. Suneel Rathore
82. Surjeet Singh
83. Surjeet Singh
84. Uttam Singh Rathore
85. Vaishnavi Mishra
86. Vijay Bisen
87. Vivek Chandra Sagar
88. Zeba Siddiqui
89. Anand Singh
90. Brijendra Mishra
91. Diksha
92. Mahendra Dawande
93. Neelu Khandelwal
94. Nitin Agarwal
95. Shekhar Choudhary
96. Sunil Patidar



**Glimpses:**

First in Central India  
**Powered by AI**

18th Anniversary

**Vikrant**  
University  
— GWALIOR —

**WORKSHOP**  
(Online Model)  
ON  
**AI TOOLS FOR  
RESEARCH EXCELLENCE**

Resource Person  
**Dr. Preeti Mulay**  
Deputy Director – Academics,  
Symbiosis Institute of Technology, Pune


29<sup>th</sup> March, 2026 | Time: 9:30 A.M.

Organised by:  
Department of Computer Science,  
Vikrant University, Gwalior (M.P.)

www.vikrantuniversity.ac.in



Preeti Mulay (Presenting, annotating)



9:50 AM | Artificial Intelligence (AI) To...

Preeti Mulay (Presenting, annotating)



**Quantitative Methods**

- Experimental Research
- Surveys and Questionnaires
- Longitudinal Studies
- Cross-Sectional Studies
- Correlational Research
- Causal-Comparative Research
- Meta-Analysis
- Quasi-Experimental Design

**Qualitative Methods**

- Case Study
- Ethnography
- Phenomenology
- Historical Research
- Content Analysis
- Grounded Theory
- Action Research
- Observational Research

**Research Methods**

10:08 AM | Artificial Intelligence (AI) To...



Meet - Artificial Intell... | DataSquad | DataAnaly... | Please set your password... | DataSquad | Set Passwo... | Ask Gemini

meet.google.com/yjc-bfwv-zss

11:35 AM | Artificial Intelligence (AI) To... | 28°C Sunny | ENG 11:35 AM IN 1/29/2026

Preeti Mulay (Presenting, annotating)

connectedpapers.com/m/.../Agri-Tech Innovations for Sustainability: A Fire Detection System Based on MQTT Broker and IoT to Improve Environmental Risk M...

### Agri-Tech Innovations for Sustainability: A Fire Detection System Based on MQTT Broker and IoT to Improve Environmental Risk M...

Derivative works

These are papers that cited many of the papers in the graph. This locally implies that they are either surveys of the field or recent relevant works which were inspired by many papers in the graph.

Selecting a derived work will highlight all derivative works.

Bring a graph paper will

Title	Year	Score	Graph references
Artificial intelligence in agriculture: applications, approaches, and...	2022	100%	1
Smart Farming Revolution: A Cutting Edge Review of Deep Learning and...	2023	100%	1
Application of navigation technology in agricultural machinery: A review...	2023	100%	1
An integrated framework for Multi-Criteria Agricultural Prior...	2023	100%	1

10:44 AM | Artificial Intelligence (AI) To... | 28°C Sunny | ENG 10:44 AM IN 1/29/2026