Online Workshop on "AI Tools for Research"

Type: Workshop

Date: 25th October 2024

Time: 2:15 PM to 4:30 PM

Number of Participants: 409

Name of the Speaker: Prof. Dhawal Maheta, Veer Narmad South Gujarat University, Surat

Organized by: Centre for Research, Innovation, and Training (CRIT), IIS (Deemed to be University)

Introduction

The Centre for Research, Innovation, and Training (CRIT) at the IIS (Deemed to be University) organized an e-workshop on "AI Tools for Research" to support the university's dedication to research advancement. Through frequent workshops, seminars, and conferences, CRIT aims to create a research-driven environment that encourages staff and students to pursue novel research and innovation opportunities.

Programme Overview

The moderator, **Dr. Mahima Rai**, gave the opening remarks and **Dr. Ashok Gupta**, Chancellor of IIS (Deemed to be University), Jaipur, welcomed everyone and bestowed blessings. The CRIT Director, **Prof. K.S. Sharma**, gave a summary of the workshop's goals and the Center's mission.

Dr. Mahima Rai then introduced the speaker, **Prof. Dhawal Maheta**, from Veer Narmad South Gujarat University, Surat. The workshop's main session focused on AI tools that enhance the quality and efficiency of research.

Objective of the Workshop

A suite of AI tools and an explanation of their importance in enhancing research output were the main goals of the one-day online workshop on AI Tools for Research. Artificial intelligence in research, particularly in fields like data mining, research paper discovery, citation management, and summarization, was the main focus of the session. A few of the most important tools are listed below:

- **Paperity AI and Publish or Perish:** Discover and analyze research papers.

- **Citation Gecko and Research Rabbit:** exploring citation networks and organizing thematic collections of literature.

- **Open Knowledge Maps and Connected Papers:** allowing researchers to visualize the relationships between papers and uncover new connections in their fields. For summarizing large volumes of information.

- **Elicit AI and Paper Digest:** offer functionalities that help condense research papers and assist with literature reviews.

- **Heurstica AI, Globe Explorer AI, and Keenious:** Locate relevant studies, analyze trends and manage large datasets.

- **Lumina Chat and Chat PDF:** Engage with uploaded papers and extract key insights using AI chat systems.

- **Napkin:** assist researchers in organizing their notes and ideas, fostering deeper reflection and structuring of their projects.

- **Perplexity:** highlight for its ability to provide immediate answers to academic queries, streamlining the information search process.

- **Jenni and Julius AI** recommend automating writing and data analysis, offering significant support in drafting and refining research papers, and improving overall productivity.

These tools are essential for contemporary researchers who want to do high-quality work more quickly because they work together to improve research processes by supporting data discovery, organization and output refinement.

Outcomes of the Workshop

Participants in the one-day online session on AI tools for research reported a number of important benefits, such as:

- gained insights into how AI can enhance research efficiency.

- learned about tools to streamline work, improve citation and paper discovery accuracy, and produce higher-quality research.

- emphasized the importance of integrating AI tools into research practices.

After the thorough presentation, there was a Q&A session where attendees asked **Prof. Maheta** incisive questions concerning the tools and how they may be used in certain research contexts.

Dr. Himangini Rathore Hooja, Member Secretary of CRIT, delivered the vote of thanks, expressing gratitude to the speaker and participants for their active involvement. **Dr. Mahima Rai** concluded the event with closing remarks, emphasizing the importance of integrating AI tools into research practices.

The event was successful overall, offering useful information and real-world research applications of AI. This e-workshop is evidence of CRIT's continuous efforts to provide academics, scholars, and students with the newest resources and techniques.

CRIT organized the session to help IIS develop a research-driven culture. Research with AI is an area of expertise for the speaker, **Prof. Dhawal Maheta**. Participants gave the workshop positive reviews and came away with useful tips on how to use AI technologies to improve their research.