DAYANANDA SAGAR UNIVERSITY

Department of Computer Science Engineering

(Artificial Intelligence and Machine Learning)

School of Engineering

Report on

"Manuscript Writing using Open-Source Softwares"

Online: Google Meet link: https://meet.google.com/aow-masg-vbg

Target Audience: 8th Sem CSE(AI&ML) Students

Faculty Coordinators

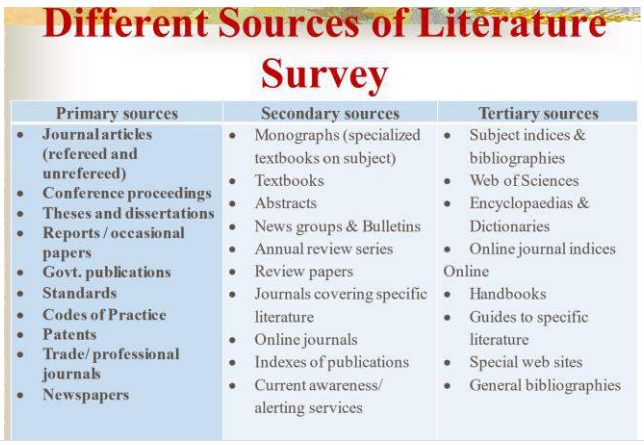
Dr. Vinutha N, AI&ML(CSE)
Prof. Pradeep Kumar K, AI&ML(CSE)

Convener:

Dr. Jayavrinda Vrindavanam
Professor & Chairperson
Dept. of CSE(AI&ML)
SoE, DSU

The Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), organized Five Days Workshop from 16th - 20th January, 2024 on “Manuscript Writing using Open-Source Softwares”. The workshop benefitted the 8th Sem CSE(AI&ML) Students. The resource persons were from Manipal Institute of Technology Bengaluru, Manipal Academy of Higher Education, Manipal and AI&ML Faculties. This workshop helped the students to understand Research Article Writing Steps Using Open Source Software . Around 25+ students and attended the Workshop.

Day1:



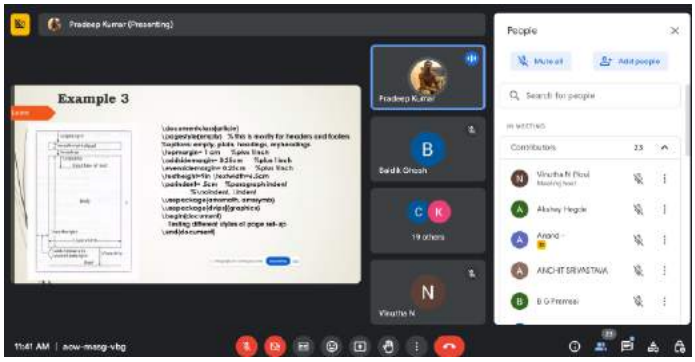
On Day 1, The research journey outlined by the **Dr. Jayavrinda V, Professor and Chairperson,** follows a structured and systematic approach, beginning with a foundational

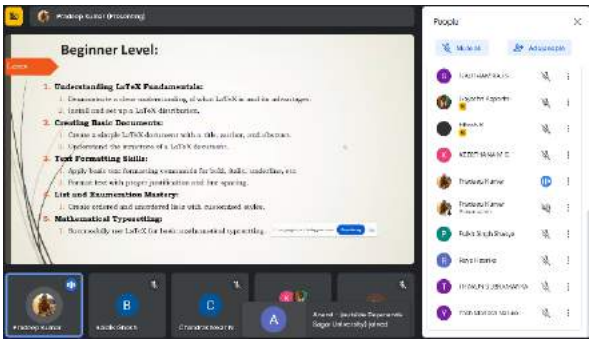
understanding of research and progressing through practical implementation. The introduction to research involves defining the concept and underscoring its significance as a driver of knowledge and innovation. As the focus shifts towards social impact, the resource person highlights the real-world applications, specifically targeting issues like preventing farmer suicides in Karnataka through the innovative lens of machine learning.

A pivotal step in the research process is the literature survey, where students are encouraged to delve into existing research, acknowledging the importance of building upon prior work and crediting the contributors. This sets the stage for informed and innovative research practices. Subsequently, the emphasis shifts to the practical aspects of data collection and preprocessing, advocating for the use of relevant datasets, such as those available on platforms like Kaggle, and the necessity of preparing data before training machine learning models.

Effective project management becomes integral through the incorporation of Gantt Charts, enabling the tracking of progress on a weekly basis

Day 2:



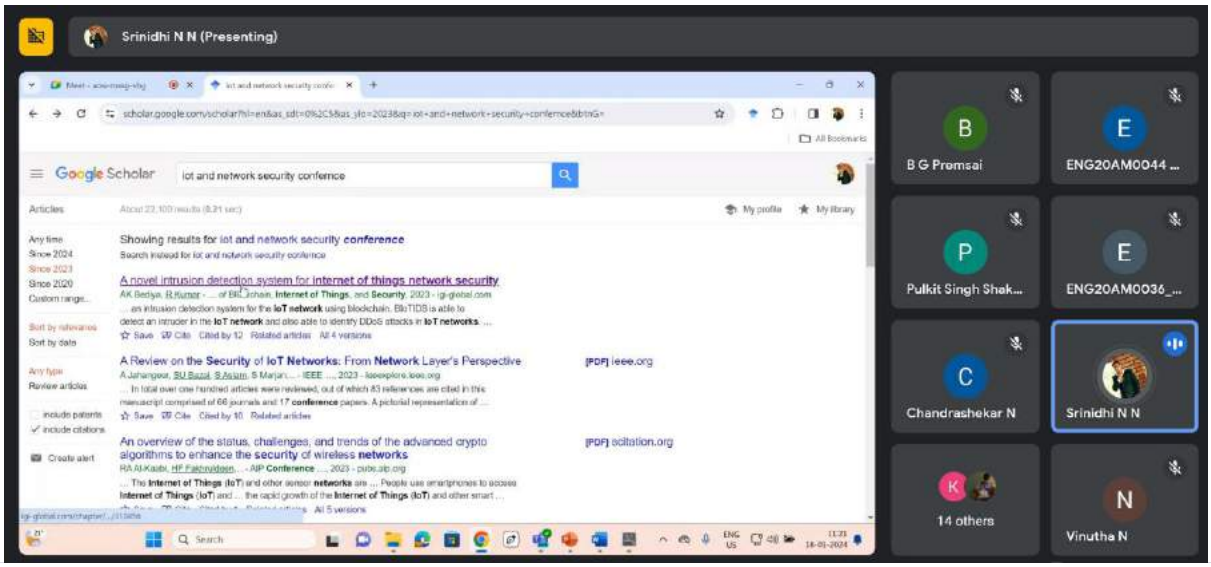


In an informative session led by Professor Pradeep Kumar, participants were introduced to a spectrum of open-source software tools tailored for article writing using LaTeX. The session commenced with essential guidance on the installation and setup of a LaTeX distribution, laying the groundwork for subsequent document creation. With a hands-on approach, attendees were guided through the process of crafting a basic LaTeX document complete with a title, author information, and an abstract, providing a practical initiation into the document preparation system.

Professor Pradeep delved into diverse text formatting skills within LaTeX, empowering participants with the ability to customize fonts, styles, and sizes. The instructional journey further extended to the creation of ordered and unordered lists using personalized styles, enhancing the participants' proficiency in structuring content in a visually appealing and organized manner. To successfully use Latex for basic Mathematical Typesetting.

The session, balancing theoretical understanding with practical implementation, ensured that participants not only grasped the conceptual foundations of document structuring and table creation but also acquired the skills to implement these concepts effectively. Prof. Pradeep's expertise facilitated a seamless learning experience, empowering participants to leverage LaTeX for professional and structured document preparation.

Day 3:



Dr.Srinidhi NN delivered a thorough discussion encompassing crucial elements in the realm of academic research. Beginning with an elucidation of key metrics such as impact factor, h-index, i10 index, and cite score, participants gained insights into quantitative measures that gauge the influence and citation impact of scholarly publications. Srinidhi then delved into the practicalities of navigating the academic landscape, covering various types of journal finders designed to assist researchers in identifying suitable publishing outlets for their work.

The importance of maintaining an ORCID account was underscored, emphasizing its role in ensuring proper attribution and recognition of scholarly contributions. Additionally, Srinidhi shed light on the significance of a Google Scholar account as a valuable platform for tracking citations and enhancing visibility within the academic community. Bibliography management, a critical aspect of scholarly writing, was addressed with guidance on tools like Bib Item, Bib File, Mendeley, empowering researchers to efficiently organize and cite references in their work.

Recognizing the inevitable challenges researchers may face, Srinidhi concluded the discussion with practical insights into troubleshooting commonly occurring errors. This comprehensive overview not only equipped participants with an understanding of essential metrics and tools but also provided practical solutions to navigate potential pitfalls in the research process. Srinidhi's expertise facilitated a holistic comprehension of the scholarly landscape, empowering researchers to optimize their impact and navigate the intricacies of academic writing with confidence.

Day 4:

In an instructive session, Dr. Vinutha N provided comprehensive guidance on structuring and enriching key sections of a research paper. The discussion covered a range of topics, including abstract, title, keywords, introduction, problem definition, objectives, and result analysis. Participants learned the art of crafting an effective abstract, capturing the essence of the research succinctly. The session delved into the intricacies of constructing a compelling introduction, defining research problems with clarity, and outlining achievable objectives. She

highlighted the importance of setting the stage for the research and establishing a clear roadmap for the study.

Participants gained insights into result analysis, understanding how to interpret and present research findings effectively. Dr. Vinutha N provided practical tips for conveying results in a manner that aligns with the research objectives. The session covered the skilful integration of visual elements. She demonstrated the proper insertion of figures and subfigures, enhancing the visual appeal of the research paper and aiding in the communication of complex ideas. The intricacies of incorporating mathematical equations were explored in detail. The resource person covered various types of equations, including simple equations, arrays, matrices, and the use of special symbols. Participants gained proficiency in aligning equations for a polished presentation.

Day 5:

In a comprehensive and instructive session, Dr. Shreyas J demonstrated the versatile capabilities of LaTeX, focusing on key elements of document creation. The session commenced with a practical exploration of table layouts, encompassing both single and multi-table structures. Dr. Shreyas J adeptly guided participants through the step-by-step process of creating visually appealing tables, emphasizing the importance of clarity and organization in scholarly documents.

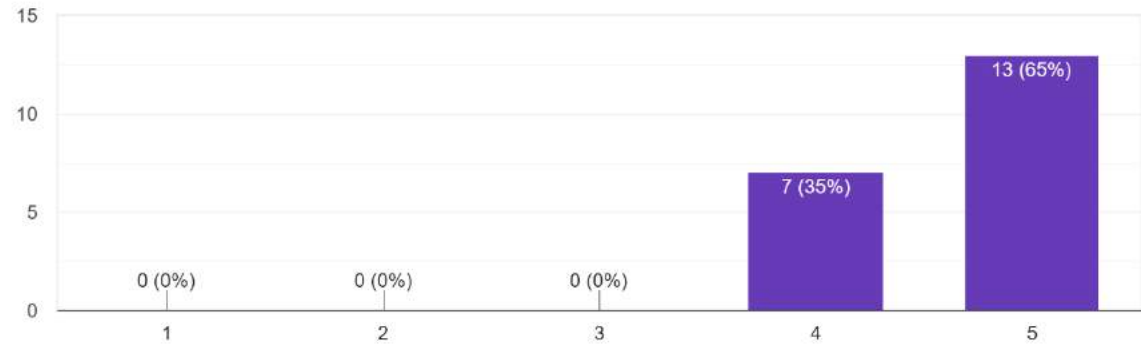
The demonstration seamlessly transitioned to algorithm creation in LaTeX, where Dr. Shreyas J showcased the syntax and techniques for presenting algorithms in a structured and comprehensible manner. Participants gained valuable insights into leveraging LaTeX packages and commands to effectively articulate algorithms, catering to the specific needs of researchers and developers.

As the session progressed, Dr. Shreyas J delved into the intricacies of different document classes, particularly focusing on widely used styles such as Springer and IEEE. Participants were guided on the significance of selecting the appropriate document class based on publication or formatting requirements, highlighting the importance of adherence to specific journal or conference guidelines.

Feedback - Manuscript Writing using Open Source Software's

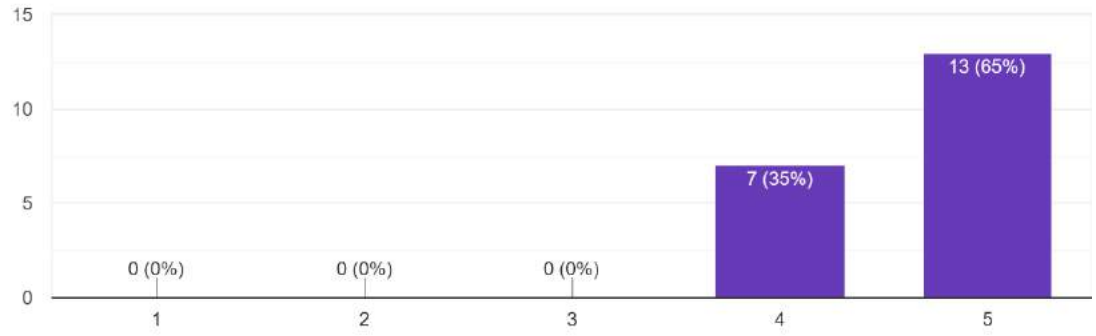
Please rate your overall experience participating in the event on a scale of 1 to 5, with 5 being the highest.

20 responses



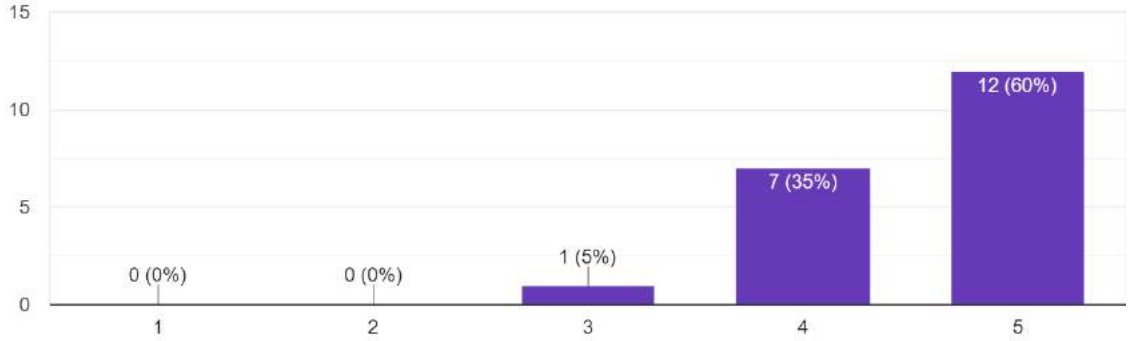
Please rate the event organization on a scale of 1 to 5, with 5 being the highest.

20 responses



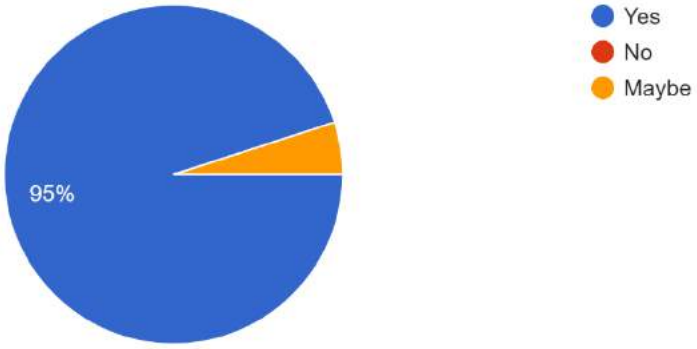
How effective were the hands-on exercises in helping you apply the concepts learned? Rate it on a scale of 1 to 5, with 5 being the highest.

20 responses



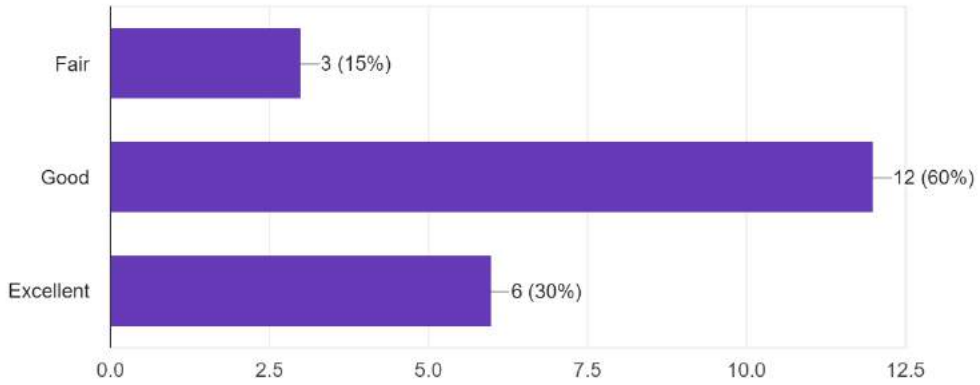
Were the topics covered relevant to your needs and expectations?

20 responses



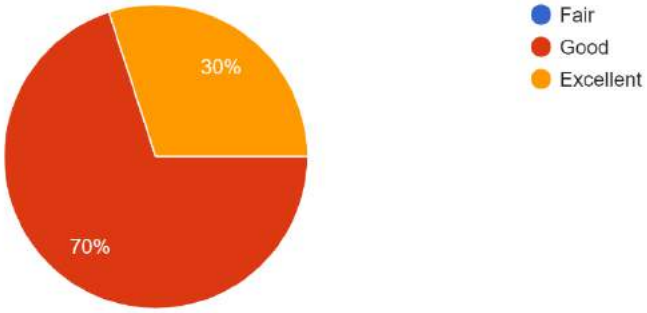
Will you be able to develop the research project by selecting an appropriate research problem?

20 responses



Will you be able to utilize open source tool to write research paper for the developed project ?

20 responses



Please share any additional comments, suggestions, or feedback you have about the event.

7 responses

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good

Good

Wonderful session. We look forward to using it in our projects.

NA

no comments

Thank You!