



पतंजलि विश्वविद्यालय University of Patanjali

Dr. Sadhvi Devpriya

Prof. & Dean - Faculty of
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उत्तराखण्ड विधान मण्डल द्वारा पारित पतंजलि विश्वविद्यालय अधिनियम संख्या 4, वर्ष 2006 के अन्तर्गत स्थापित
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To,

The Vice Chancellor
University of Patanjali,
Haridwar

Subject:- In the reference of Workshop entitled 'Sanskrit Computational Linguistics (SCL)'

Respected Sir,

We – the Department of Philosophy and the Department of Sanskrit – request you to organize a three-day workshop on **Sanskrit Computational Linguistics** on **4-6 March 2024**. We have invited **Prof. Shivani V.** and team to share their expertise on this subject matter. This event may be of interest to various academic communities.

Our aim is to provide a forum for students and faculty members to engage with the theoretical and practical aspects of Sanskrit and Computers. We believe this workshop will contribute to their academic growth and professional development.

Thanking You

Prof. (Dr.) Sadhvi Devpriya
Dean-Faculty of Humanities and Ancient Studies
University of Patanjali, Haridwar

Report on
The Three day workshop on Samskrit Computational Linguistics (SCL)
(*Leveraging technology for Samskrit Text Processing*)
4 - 6 March 2024

A three-day workshop on Sanskrit Computational Linguistics (SCL) was held by the Faculty of Humanities and Ancient Sciences, University of Patanjali (UoP) in collaboration with the Department of Vyakarana, Karnataka Samskrit University, Bengaluru with the aim to bridge the gap between traditional Sanskrit studies and modern computational techniques. SCL is an interdisciplinary field that combines the study of Sanskrit language and linguistics with computer science and technology. It refers to the application of computational methods, algorithms, and tools to analyze, understand, and process Sanskrit texts - grammar, and linguistic structures. The workshop aimed at introducing this emerging field to the participants with a focus on leveraging technology for Samskrit text processing, and to equip participants with the necessary skills and knowledge to explore Sanskrit Computational Linguistics (SCL) is an the intersection of Sanskrit language studies and computational methods.

Attendance:

The workshop garnered significant interest, with over 400 registrations received from University of Patanjali, and Kanya Gurukulam, Devaprayaga etc. Approximately 250 participants attended the workshop regularly, indicating a strong enthusiasm for the subject matter.

Param Shraddheya Acharya Sri ji, the Vice Chancellor of UoP graced the event and encouraged participants to keep up with the technological advancements. He urged them to explore how technology can be used in their fields to make learning more engaging and accessible.

Param Pujya Swami Ji Maharaj, Chancellor, University of Patanjali blessed the participants on the final day and appreciated the enthusiasm demonstrated by the participants. The students demonstrated the tools developed by them during the workshop.

The workshop was blessed with the gracious presence and direction of Pujya Sadhvi Devpriya ji, Dean of Humanities and Ancient Studies, UoP. All the members of the two departments – Department of Philosophy and Sanskrit - worked for the successful completion of the programme.

Scope of the Workshop:

The workshop covered various aspects of SCL, including an introduction to the field, foundational concepts of Sanskrit linguistics, computational techniques, collaborative learning, and hands-on exercises. Participants were exposed to tools and techniques used in SCL, along with practical exercises to analyze and process Sanskrit texts that included ten Upanishads, Yogasutras.

Key Objectives:

The primary objectives of the workshop were to introduce SCL to students, provide hands-on knowledge about tools and techniques, elicit ideas for the application of SCL in different domains, inspire students to undertake projects related to Sanskrit texts, and create a core group of students to spearhead the SCL initiative at Patanjali.

Topics Covered:

Demonstration of Sambhasha, an online computational platform developed by the department of Vyakarana, KSU was introduced to the students. The workshop covered a wide range of topics including analysis of language, sentence structure, morphology of words, database creation, XML tagging, introduction to existing computational tools, framework for processing Sanskrit texts for courseware creation, and case studies on Ayussamskrutam, Pali, and Prakrit.

Outcomes:

At the end of the workshop, participants obtained a broad understanding of SCL as a domain and its relevance to various fields such as Yoga, Ayurveda, and Vedanta. They learned techniques to analyze and process Sanskrit texts, explored opportunities for integrating SCL with other domains, and became familiar with resources and tools available online for SCL. More specifically the participants worked on texts such as Upanishads, Patanjali Yogasutras, Vedantasara, and Arthasangraha. They also got live demonstration of learning tools that can be developed such as games, quizzes etc to make courseware interactive and interesting to students.

Resource Persons:

The workshop benefited from the expertise of distinguished resource persons from Karnataka Samskrit University including Prof. Shivani V, Dr. Sivaja S Nair, Dr. Swati Basapur, Vid. Chaitanya S Lakkundi, Vid. Aruna V, Dr. Naveen, and Vid. Kaushik, who shared their insights and knowledge on various aspects of SCL.

Overall, the workshop on Sanskrit Computational Linguistics was a resounding success, providing participants with valuable insights and practical skills in leveraging technology for the study and analysis of Sanskrit texts. It served as a catalyst for further exploration and collaboration in this emerging field, paving the way for the integration of traditional Sanskrit studies with modern computational methods.



(Dr. Manohar Lal Arya)

विभागाध्यक्षः
संस्कृतविभागः
पतंजलि विश्वविद्यालयः, हरिद्वारम्

संस्कृत एवं दर्शन विभाग
तीन दिवसीय कार्यशाला दिनांक ३ से ५ मार्च, २०२४ कार्यक्रम











