A REPORT ON

# PARAM Shavak Preview: A Glimpse into Supercomputing Excellence

**Date:** 16th March, 2024
**Venue:** EA-803, Silver Oak University

PARAM Shavak Preview: A Glimpse into Supercomputing Excellence

## Introduction:

Silver Oak University IEEE Student Branch in collaboration with the Department of Computer Engineering, SOCET, organized a technical hands-on event titled **"PARAM Shavak Preview: A Glimpse into Supercomputing Excellence"** aimed to provide participants with valuable insights into the world of high-performance supercomputing, catering to both beginners and those seeking to deepen their understanding for supercomputers.

## About the Speaker:

The event was led by luminary Prof. Monali Suthar, Assistant Professor, Computer Engineering, SOCET.

## About the Session:

**Date:** 16th March, 2024
**Time:** 11:00 AM - 01:00 PM
**Venue:** EA-803, Silver Oak University
**Participants:** 78

The event was graced with the presence of Dr. Satvik Khara & Prof. Mayuresh Kulkarni. Dr. Satvik Khara inspired students to innovate by proposing diverse ideas and projects utilizing Param Shavak. He emphasized the significance of understanding the functionalities, applications, and capabilities of Param Shavak, starting with an overview of various configurations of supercomputers. He also illustrated examples of potential applications and projects feasible on such a system, motivating every student to harness the power of supercomputing.

Following Dr. Satvik Khara's discourse, Prof. Monali Suthar explored supercomputing. Beginning with an interactive session, she discussed supercomputers and parallel computing, detailing Param Shavak's features and specifications. The session focused on explaining CPU and graphic card functionalities. Students witnessed live demonstrations of specific commands like "cpuinfo" and "meminfo" to retrieve system information, enhancing their understanding of the machine. Additionally, they were briefed on Param Shavak's features, including pre-installed applications and a user-friendly IDE environment. Prof. Suthar introduced useful applications such as Onama, Weka, and WRF, along with an overview of domain work functions. A brief Q&A session addressed any remaining doubts before students began their supercomputing journey.

To facilitate a hands-on supercomputing experience, each student received a unique user ID and password for Param Shavak access. Clear instructions were provided for logging in via MobaXtreme, including adding the user ID prefix and entering the password along with the captcha. Students then began exploring Param Shavak, utilizing commands like "hpcapps,"

“cd,” “ls,” and “gio open,” with detailed explanations of their functions, including how to read and write using the “CAT” command and save changes.

The session concluded with Prof. Monali Suthar imparting a wealth of knowledge to enthusiastic and solving doubts of IEEE members, significantly enriching their understanding of supercomputing and its applications.

## Conclusion:

The event served as an invaluable opportunity for students to immerse themselves in the realm of supercomputing. Through insightful presentations and interactive sessions, students gained a deeper understanding of the functionalities, applications, and capabilities of Param Shavak. The emphasis on practical demonstration, coupled with hands-on exploration, equipped participants with the necessary skills to navigate and utilize Param Shavak efficiently for their future endeavors in supercomputing projects.

This event saw success under the essential guidance and support of Dr. Satvik Khara, Dean, Diploma Engineering, SOU; Head, Department of Computer Engineering, SOCET; IEEE Senior Member; Chairperson, SIGHT, IEEE Gujarat Section; Secretary, Computer Society, IEEE Gujarat Section; and Founding Member, Silver Oak University IEEE Student Branch.

## Glimpses of the event:


*Dr. Satvik Khara sharing his insights on supercomputer "PARAM Shavak"*


*Prof. Monali Suthar introducing the participants to Supercomputer*


*Prof. Monali Suthar offering hands-on guidance to participants*


*Group picture after successful completion of the event*