



**SILVER OAK
UNIVERSITY**
EDUCATION TO INNOVATION



IEEE

Silver Oak University
IEEE Student Branch



**IEEE
COMPUTER
SOCIETY**
Silver Oak University
Student Branch Chapter



A REPORT ON **TechSpark**

Date: 28th January 2025

Venue: Apple Lab, B-Block, Silver Oak University

TECH SPARK

Introduction:

TechSpark was hosted under the initiative **TECHCaffeine** by **Silver Oak University IEEE Computer Society Student Branch Chapter** and **Silver Oak University IEEE Student Branch** in collaboration with the **MLGeeks Club**, brought together coding enthusiasts for an inspiring and informative session. The event was meticulously designed to help participants enhance their coding and debugging skills while also providing insights into becoming proficient coders and handling real-world coding challenges.

About the Speaker:

This event was conducted by two highly esteemed **Silver Oak University IEEE Student Advisory Board Members**:

- **Mr. Rushi Prajapati** is an Advisory Student Board Member at Silver Oak University IEEE Student Branch and an AI Technology - Delivery & Support Engineer at Sahana System Limited.
- **Mr. Meet Suthar** is an Advisory Student Board Member at Silver Oak University IEEE Student Branch and an AI Technology - Delivery & Support Engineer at Sahana System Limited.

About the Session:

Date: 28th January 2025


Time: 12:00 P.M. - 02:00 P.M.

Venue: Apple Lab, B-Block, Silver Oak University

Participants: 40

The session began with Mr. Rushi Prajapati sharing his inspiring journey as an IEEE member. He highlighted the importance of technical skills and professional networking. Emphasizing the importance of the IEEE platform, he encouraged attendees to start their coding journey irrespective of their prior experience. Mr. Rushi Prajapati also shared a few amazing strategies for refining and developing strong coding skills. His motivational insights set the tone for the session, inspiring participants to take charge of their learning and explore the vast opportunities within IEEE.

Elaborating on this, Mr. Meet Suthar delved into core coding concepts, particularly the distinction between syntax and structure. He demonstrated how syntax errors can lead to structural issues, affecting code readability and quality in coding. To reinforce this concept, a hands-on task was conducted where attendees wrote and analyzed a basic Python code, example provided by the speaker. This exercise allowed participants to apply their understanding of syntax and structure and refine their quality of writing clean, readable code for better debugging and long-term maintenance.




The session then shifted to error handling, where Mr. Suthar provided a comprehensive overview of try-except blocks, custom exceptions and logging mechanisms. He demonstrated how mastering these techniques ensures system stability even in the face of unexpected errors. Through real-world examples, participants learned how to handle errors gracefully, making applications more resilient and reliable. Following this, he introduced effective debugging techniques, teaching attendees how to analyze and fix complex codebases. By breaking down larger code into manageable sections and understanding file structures, he showcased how debugging can become a more systematic and efficient process.

Continuing the session, Mr. Prajapati revisited foundational concepts essential for every coder's growth, including Data Structures and Algorithms, Database Management Systems, Operating Systems and Network Technology. Mr. Prajapati and Mr. Suthar emphasized how these concepts form the backbone of software development, enabling developers to build efficient and scalable solutions. The event concluded with both speakers encouraging participants to explore new platforms for coding and emphasizing the importance of continuous learning. Their dynamic presentation styles and real-life experiences left attendees motivated and confident in pursuing their coding journey.

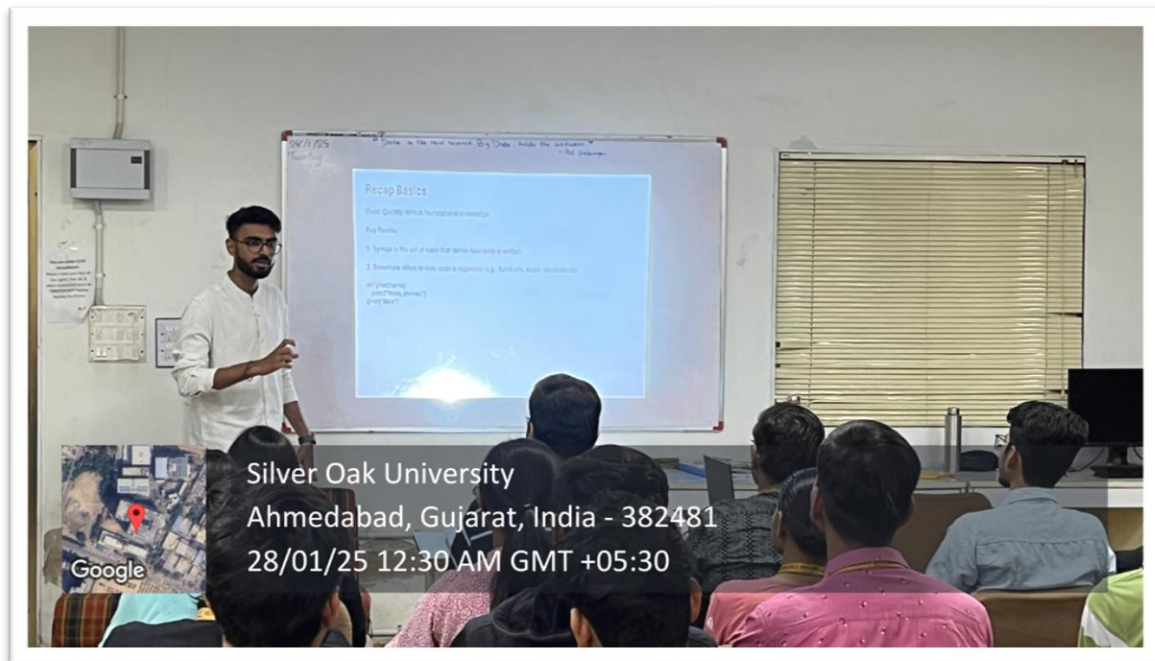
Conclusion:

TechSpark proved to be a resounding success, Mr. Rushi Prajapati's and Mr. Meet Suthar's insights reinforced the importance of continuous learning and mastering fundamental topics to excel in coding. This engaging session equipped participants with essential coding strategies, debugging techniques and a deeper understanding of core software development principles. By blending technical depth with motivational guidance, the event not only enhanced coding abilities but also encouraged a mindset of continuous growth and exploration within the dynamic field of technology.

The remarkable success of the event is primarily attributed to the insightful guidance and unwavering support of Dr. Satvik Khara, Dean, School of Technology, Design and Computer Application; Chairperson, SIGHT, IEEE Gujarat Section; Chairperson, Technical Committee, Computer Society, IEEE Gujarat Section; Founding Member, Silver Oak University IEEE Student Branch.



Some glimpses of the event:



Mr. Meet Suthar highlights the importance of smart coding techniques



Mr. Rushi Prajapati describing debugging strategies