

Technical Talk on “Responsible AI

Department of Computer Science Engineering, organized a one-day technical talk on "Responsible AI" for all final year students on 9th January 2024. The resource person for the talk was Mr. Abhilash Dominic, Group Project Manager at Infosys, Mangalore. The objective of the talk was to provide insights into the principles and practices of Responsible AI, emphasizing the ethical implications and societal impact of AI technologies. Mr. Dominic shared valuable information on how AI can be leveraged responsibly, ensuring that AI systems are fair, transparent, and accountable. The talk aimed to equip students with the knowledge necessary to navigate the complexities of AI development while adhering to ethical standards, ultimately helping them to become more conscientious and responsible AI practitioners in their future careers.



Workshop on “Fundamentals of API”

Department of Computer Science & Engineering, in association with the Computer Society of India, organized a hands-on session on "Fundamentals of API" for all students on 13th January 2024. The session was led by Mr. Chidananda Gouda S, Senior Software Engineer at Blue Yonder.



The primary focus of the session was to introduce students to the basics of APIs, including the concepts of URL or URIs, the differences between GET and POST methods, and the structure and usage of JSON data. This practical session aimed to provide students with a foundational understanding of how APIs work, how they can be integrated into various applications, and the importance of these technologies in modern software development. The session was designed to enhance students' technical skills and prepare them for real-world software engineering challenges.

Technical talk on "Monolithic vs Microservices vs Serverless"

Department of Computer Science & Engineering, in collaboration with the Computer Society of India, organized a technical talk on "Monolithic vs Microservices vs Serverless" on 13th January 2024. The session was led by Mr. Sreenath, Systems Analyst at Speridian Technologies, who provided an in-depth exploration of different architectural paradigms and their impact on software development.



During the talk, Mr. Sreenath emphasized the critical role of choosing the right architecture—be it monolithic, microservices, or serverless—in determining the success of a software project. He explained that the choice of architecture is not just a technical decision but a strategic one, as it affects several key aspects: the efficiency of development processes, the system's adaptability to changing requirements, and the overall scalability and maintainability of the application. Monolithic architectures, while straightforward and easier to manage initially, might become rigid and challenging to scale as projects grow. Microservices offer greater flexibility and scalability but come with added complexity in managing distributed systems. Serverless architectures, on the other hand, provide high scalability with reduced operational overhead but may introduce challenges in debugging and performance optimization. Mr. Sreenath's insights helped students understand the trade-offs associated with each architecture type, guiding them on how to select the most appropriate one for different project scenarios. This understanding is crucial for ensuring that the chosen architecture aligns with project goals, thus enhancing the chances of successful project delivery.

Technical talk on " Git "

Department of Computer Science & Engineering, in collaboration with the Computer Society of India, organized a technical talk on "Git" on 13th January 2024. The session was conducted by Mr. Vishnu Mohandas, System Engineer at TCS, who provided a comprehensive introduction to Git, a vital tool for version control in software development.



During the talk, Mr. Mohandas covered the basic concepts of Git, explaining its significance in managing and tracking changes in codebases. He introduced students to common Git commands that are essential for everyday version control tasks, such as cloning repositories, committing changes, branching, merging, and resolving conflicts. The session also highlighted the importance of platforms like GitHub and GitLab, demonstrating how these tools facilitate collaboration among developers, enable code sharing, and streamline the process of managing projects across teams. By the end of the session, students gained a solid understanding of how to use Git and its associated platforms effectively, preparing them to apply these skills in their academic projects and future professional endeavors.

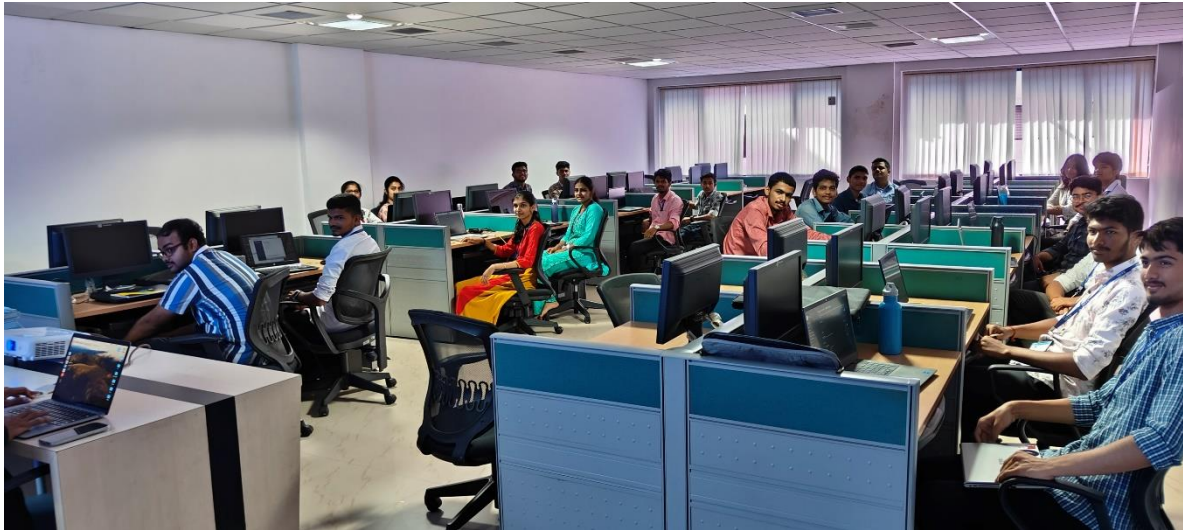
Event on “Developer Code Heist”

Department of Computer Science & Engineering, in association with CORE, organized the "Developer Code Heist" competition on 3rd February 2024. This premier coding event was designed exclusively for female students, offering them a platform to showcase their programming skills in a competitive environment. Participants engaged in coding challenges using languages such as C/C++, Python, and Java. The competition was not only a test of technical proficiency but also an opportunity to foster camaraderie among female coders and encourage more women to participate in the tech field. The event highlighted the importance of coding competencies and problem-solving abilities, preparing participants for future challenges in their academic and professional careers.



Workshop on "Node.js and Express"

To enhance the 2023-24 academic year's learning journey, the Department of Computer Science & Engineering, in collaboration with the Computer Society of India, organized a hands-on session on "Node.js and Express" on 22nd February 2024.



The session was led by Mr. Panduranga Naik, Product Engineer at Servify, Bangalore, who provided an insightful overview of Node.js and Express, two crucial technologies in modern web development. During the talk, Mr. Naik discussed the fundamentals of Node.js, highlighting its non-blocking, event-driven architecture, which makes it ideal for building scalable network applications. He then introduced Express, a minimalist web framework for Node.js, explaining how it simplifies the process of creating robust web applications by providing essential tools and features. The session was designed to equip students with the knowledge and skills needed to build efficient, high-performing web applications using Node.js and Express, empowering them to leverage these technologies in their projects and future careers.

Workshop on " Mobile App Development using React Native "

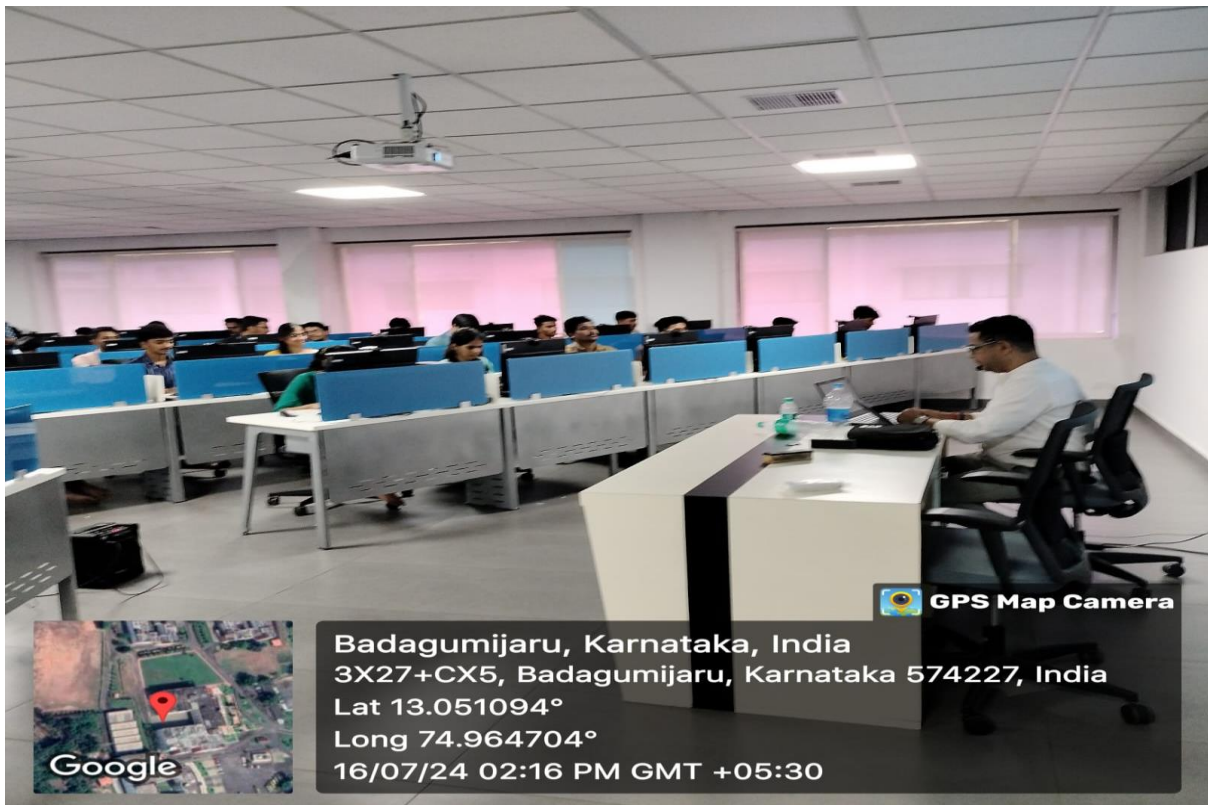
Department of Computer Science & Engineering organized a workshop on "Mobile App Development using React Native" on 7th March 2024. The workshop was conducted by Mr. Nishanth from Accelerlab Solutions Private Limited, who provided a comprehensive introduction to mobile app development with a focus on React Native. During the workshop, participants were introduced to the fundamentals of mobile app development, including the design, development, and deployment of mobile applications.



Mr. Nishanth highlighted the advantages of using React Native, a popular framework for building cross-platform mobile apps using JavaScript and React. He demonstrated how React Native enables developers to write code once and deploy it on both iOS and Android platforms, significantly reducing development time and effort. The hands-on nature of the workshop allowed students to engage directly with the tools and technologies, providing them with practical experience in building mobile applications. This workshop equipped students with valuable skills that are highly relevant in the current job market, preparing them for future opportunities in mobile app development.

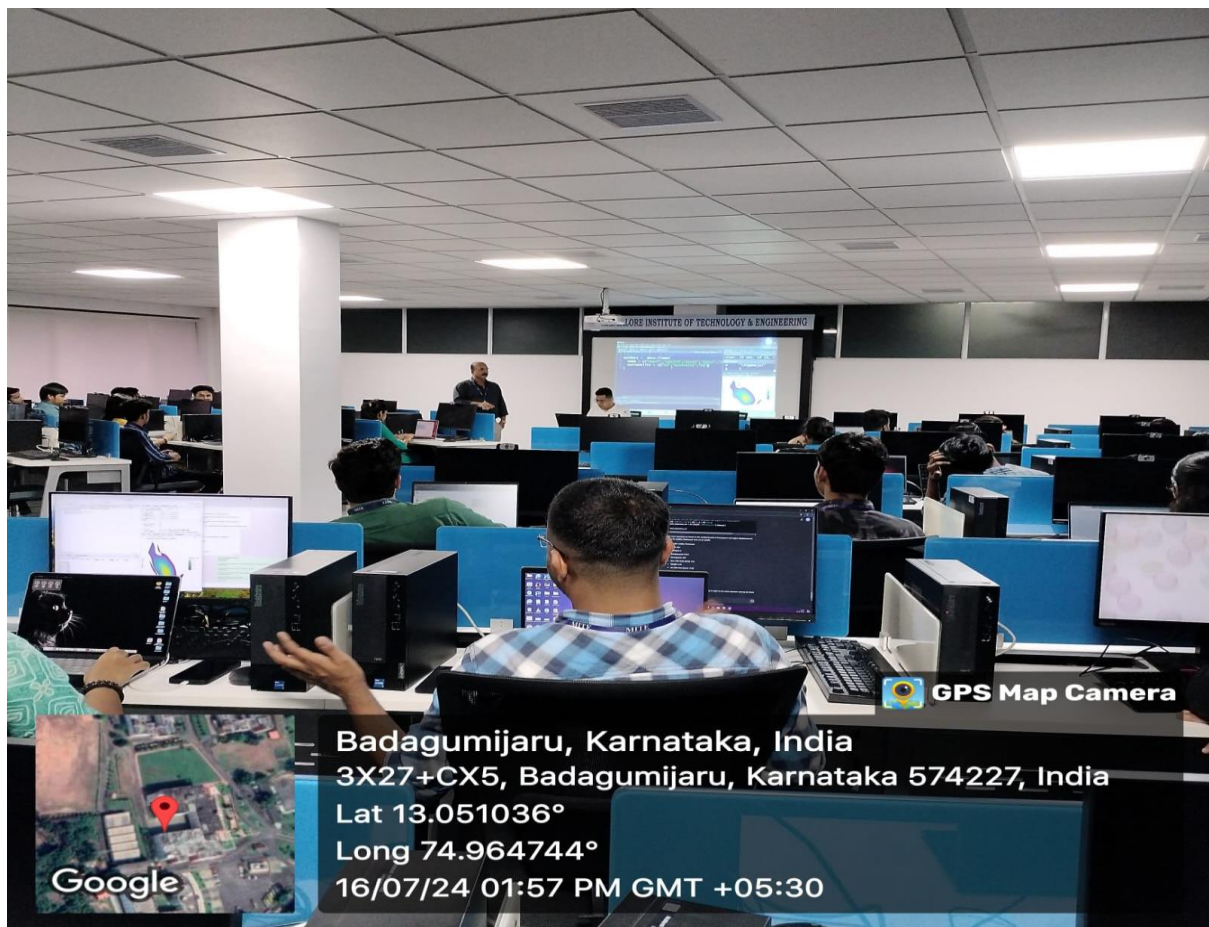
3 Days Hands-on Workshop on “Applied Data Science with R”

From July 15 to July 17, 2024, a 3-day hands-on workshop titled "Applied Data Science with R" was organized by the Department of Computer Science & Engineering in collaboration with CORE. The workshop was led by Mr. Anirban Chowdhury from D Lithe, Bangalore. The workshop began with an introduction to R programming, where participants were introduced to the fundamentals, basic functions, and essential packages used in data science. Mr. Chowdhury provided insights into various data structures and techniques for data manipulation, laying a solid foundation for further learning. Hands-on practice sessions enabled participants to apply these concepts in real-time, enhancing their understanding of R.



The workshop continued with a focus on data visualization using ggplot2, where participants learned to create and customize plots. Mr. Chowdhury guided them through advanced data manipulation techniques and string manipulation using specialized functions, providing a deeper understanding of R's capabilities. The session also included practical exercises, allowing participants to experiment with different datasets and visualize their results effectively. The final day of the workshop concentrated on statistical analysis and linear

regression, crucial components of data science. Participants were introduced to RMarkdown, a powerful tool for creating reports and documents within R. The workshop concluded with a session on report creation, where participants learned to compile their analyses and visualizations into comprehensive, professional reports using RMarkdown. Throughout the workshop, Mr. Chowdhury's expertise and practical approach provided participants with a thorough understanding of applied data science using R. The hands-on exercises and real-world examples ensured that participants not only grasped the theoretical concepts but also gained valuable practical experience, equipping them with the skills needed to apply data science techniques in their own work.



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Event on “Tech Tussle”

Tech Tussle 2024, organized by CORE on Saturday, July 13th, was a tremendous success, marked by high enthusiasm and active participation. The event centered around an engaging debate session on technology-related topics. Teams, each composed of three members, were tested on their knowledge, argumentation skills, and collaborative abilities. After intense rounds of debate, Team Icey Logic Masters, comprising Pranshu Sharma, Jataniya Mihir, and Suhan D Shet, emerged as the winners. Team Logs, consisting of Manik, Sejal, and Karthik, claimed the runners-up position. The event showcased the participants' prowess and collaborative spirit, leaving a lasting impact.



Event on “Code Relay”

On Saturday, June 22nd 2024, a unique coding and puzzle challenge event was held at 12 PM, organized by 2nd and 3rd-year students. The event aimed to foster collaborative problem-solving skills through both individual and team-based challenges in coding and puzzle-solving. The competition featured two phases: an individual round with a 15-minute switch between coding and puzzle tasks, and a final collaborative phase where both team members tackled a coding challenge together. Team "Local Strivers," comprising Mahesh Nayak and Krishnaraja V, emerged as the winners. Team "Ace," consisting of Sujnan Kumar and Manik S Hilapure, secured the runners-up position, while Team "I am Big," with Rohan G Ambig and Sai Manjunath R Walke, took second runners-up.

