Carnivalesque: A Celebration of Talent and Triumph

Carnivalesque 2024, was a lively and exciting event that brought together students from various colleges, each showcasing their unique talents and strong spirit. The atmosphere buzzed with the thrill of competition, as participants displayed their skills and determination in cultural, academic and sports events. The fest was filled with moments of triumph, where victories were celebrated with joy, and defeats only increased the drive to succeed. The shared enthusiasm united everyone, creating a joyful and spirited environment, all fueled by the intense desire to win and claim the overall trophy.

The BCA department played a pivotal role in Carnivalesque 2024, contributing to its success with two standout events, Escape Room and BGMI, that captivated participants and spectators alike.

Escape Room

The thrilling Escape Room event was one of the highlights of the fest. Participants were invited to solve a series of challenging puzzles and riddles within a set time limit. This event tested their problem-solving abilities, teamwork, and creativity. The intricately designed Escape Room featured themes that ranged from classic mystery scenarios to futuristic adventures, ensuring that there was something for everyone.

BGMI

The BCA department's BGMI tournament emerged as a standout feature of the fest, drawing a diverse array of participants. Teams from various colleges across Bangalore showcased their skills in intense matches that kept spectators on the edge of their seats. The tournament provided an exhilarating experience, blending strategy, teamwork, and precision gameplay.

Powered by Dell: Elevating Carnivalesque 2024 with Cutting-Edge Technology

The BCA department secured Dell as a key sponsor for the college fest, enriching the event with a dedicated Dell Experience Zone. Dell showcased its latest laptop models, including Alienware laptops powered by cutting-edge Intel gaming chips. These chips, renowned for their high-performance capabilities, were prominently featured in the demo gaming stations, where attendees experienced firsthand the seamless gameplay and enhanced graphics they offer. Dell also organized an exhilarating gaming tournament, where participants competed for cash prizes and coveted goodies, further amplifying the fest's excitement and technological presence at Carnivalesque 2024.

BCA Students Explore IT Industry During Excel Corp Visit

—— By Abhay S Panicher (4th Sem BCA-B)

On May 7th, 2024, second year BCA students from St.Francis College, Koramangala visited Xcel Corp in Bangalore. Xcel Corp is a global leader in IT solutions and networking, headquartered in New Jersey, USA who provides end-to-end IT services to businesses worldwide, aiming for result-oriented and cost-competitive solutions.
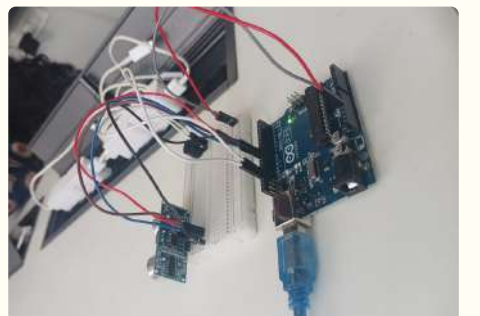
During the visit, the students were given an opportunity to see the workings of an IT company and were also given interview strategies by the director and CEO of Xcel Corp themselves. The Employees at Xcel Corp also organized a workshop for making mobile applications using Kotlin which is a modern, statically-typed programming language that runs on the Dalvik Virtual Machine (DVM). The workshop enabled the students to understand how easily one can make mobile applications thanks to Kotlin's ease of use.

This Industrial Visit made sure to highlight the importance of Internships in helping one to gain first hand experience and also in improving soft-skills. Overall, the visit was very informative and motivational helping one to learn the workings of a mobile application and what to expect in an IT company.

Infosys Spring Board: Campus Drive

—— By Revanth (6th Sem BCA-B)

Infosys conducted a campus drive at our college, explaining Arduino Uno sensors and demonstrating a car parking project. Their hands-on session, which featured a system that beeps when an object is detected, was highly informative and practical. This experience significantly enriched our understanding of IoT applications in real-world scenarios.

Industrial Visit to CDAC

By Praveen S (6th Sem BCA-B)

On April 16, 2024, final-year BCA students from St. Francis College in Koramangala visited the Centre for Development of Advanced Computing (C-DAC) in Bengaluru. This visit offered a unique chance to explore C-DAC's progress in high-performance computing (HPC) and other IT domains. The session highlighted the PARAM series of supercomputers, focusing on their latest model, PARAM Siddhi-AI. This AI supercomputer is among the top 100 worldwide, boasting a capability of 210 AI petaflops, and is utilized for complex tasks like climate modeling and drug discovery.

During the visit, students delved into the technical details of PARAM HPC, including its architecture based on the NVIDIA DGX SuperPOD, which supports high-speed data processing and efficient management of large datasets. The discussion also covered C-DAC's initiatives to build an exascale computing ecosystem in India, which aims to perform over a billion calculations per second, marking a significant milestone in HPC and promising to transform various scientific disciplines.

This industrial visit enriched the students' understanding of supercomputing technologies and inspired many to consider careers in advanced computing and research. It underscored the importance of technological innovation in India's development and highlighted C-DAC's role in promoting national self-reliance in high-tech industries. Overall, the visit was highly educational and motivating, demonstrating the crucial role of supercomputing in solving complex scientific and industrial problems.

💡 Fun Fact!

By 2030, Artificial Intelligence will add 15.7 trillion dollars to the world's GDP, boosting it by 14 percent.

Tech Hack ⚙️

To recover deleted files on Windows, you can use the **Recuva** software. It scans your hard drive for deleted files and allows you to recover them if they haven't been overwritten.

Introducing GPT-4o: The Pinnacle of Conversational AI

By Albin Thomas (4th Sem BCA-B)

ChatGPT-4o (GPT-4o), developed by OpenAl, represents a significant advancement in the field of conversational Al. This model is built on the robust GPT-4 architecture and is designed to deliver superior performance in natural language, understanding and generation. It excels in maintaining context over extended conversations, making it highly effective for complex and subtle dialogues. A key feature of GPT-4o is its multimodal capability, which allows it to process and generate responses based on both text and image inputs. This multimodal approach enables richer and more comprehensive interactions. Additionally, GPT-4o is highly customizable, allowing users to fine tune the model for specific tasks and industries, thereby enhancing its versatility and application range.

OpenAl has made significant progress in ensuring the ethical use of GPT-4o. Efforts to reduce biases and ensure the generation of safe, appropriate content are integral to its design, supported by robust moderation mechanisms. The model's architecture is optimized for performance, ensuring quick response times and efficient handling of multiple interactions simultaneously, making it scalable for high-demand environments. GPT-4o also supports multiple languages, broadening its utility for a global audience. Recent developments include enhanced API functionalities for easier integration, increased resilience against adversarial inputs, and ongoing collaboration with the Al Research community to refine its capabilities and address ethical considerations. These advancements make ChatGPT-4o a powerful reliable, and ethical tool for diverse applications, ranging from customer service and content creation to educational support and technical assistance.

Big Tech Embraces Rust: The Fast and Secure Programming Language Revolutionizing the Industry

By Mohammed Rayan (2nd Sem BCA-B)

Big Tech is embracing Rust, a programming language known for its incredible speed and robust security. Unlike many fast languages plagued by memory errors and crashes, Rust is designed to be both high-performing and safe. This makes it ideal for tasks ranging from developing superfast games to creating tiny robots.
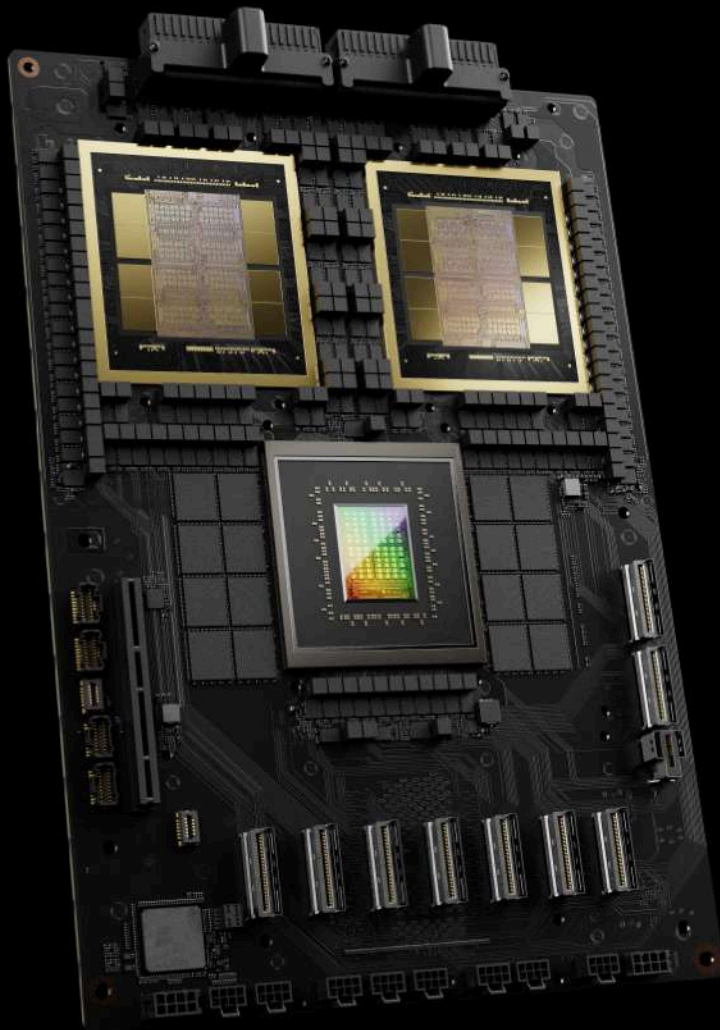

Rust's unique safety features are thanks to the dedicated engineers in its community. They have made Rust not only powerful but also user-friendly, attracting newcomers to the field.

Major corporations like Google and Microsoft are leading the way in adopting Rust. Google is enhancing Rust's interoperability and using it in projects like Android development. Microsoft incorporates Rust in essential Windows features and supports its developers with tutorials.
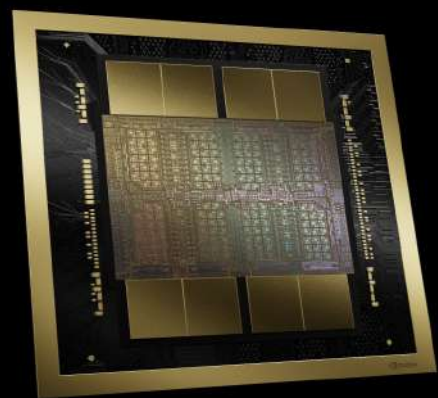
Other tech giants, including Amazon Web Services, Dropbox, Mozilla, and Meta, are also leveraging Rust to improve their services and web browser performance. This growing trend highlights Rust's potential to revolutionize the industry.

THE BLACKWELL

The Engine of the New Industrial Revolution.

- NVIDIA

New Era of Computing is here

At the recent GTC, NVIDIA once again set new standards in technological innovation. Their groundbreaking advancements in parallel computing promise to transform the industry like never before.

Blackwell's six revolutionary technologies collectively enable AI training and real-time large language model (LLM) inference for models scaling up to 10 trillion parameters

This massive *Superchip* is fuelled with 208 billion transistors and features a *2nd Gen Transformer Engine*, doubling compute power and model sizes with new 4-bit floating point AI inference capabilities. It includes a *5th Gen NVLink* to enhance performance for multitrillion-parameter and mixture-of-experts AI models, and a *RAS Engine* to maximize system uptime, improving resiliency for massive-scale AI deployments to run uninterrupted for weeks or even months, thereby reducing operating costs. The superchip also incorporates *SECURE AI* with advanced confidential computing capabilities that protect AI models and customer data without compromising performance. Additionally, a dedicated *Decompression Engine* supports the latest formats, accelerating database queries to deliver top-tier performance in data analytics and data science.

AI SUPERCHIP
208B Transistors

2nd GEN TRANSFORMER ENGINE
FP4/FP6 Tensor Core

5th GENERATION NVLINK
Scales to 576 GPUs

RAS ENGINE
100% In-System Self-Test

SECURE AI
Full Performance
Encryption & TEE

DECOMPRESSION ENGINE
800 GB/sec

Whitepaper : https://resources.nvidia.com/en-us-blackwell-architecture

Faculty Achievements

Ms. Bharathi G R has been awarded with a Certificate of Participation in HPC Master Trainer Program jointly organised by AICTE and C-DAC from 12th February to 23rd February 2024, at C-DAC, Bangalore.

Ms. Shivanjali Kesharwani has been awarded with a Certificate of Participation and completed successfully the HPC Master Trainer Program jointly organised by AICTE and C-DAC from 12th February to 23rd February 2024, at C-DAC, Bangalore.

Ms. Soumya Unnikrishnan has successfully cleared the Karnataka State Eligibility (KSET-Computer Science) Exam.

Student Achievements

- **Paul Dinakar** from *4th Sem BCA - A* has successfully completed his training in ***"Data Science"*** from 10th June 2023 to 1st August 2023. During this period the student was found to be dedicated, determined and hardworking.

- **Korgu Varshitha** from *4th Sem BCA - A* has successfully completed the online, non-credit Professional Certificate for Google UX Design.

- **Keerthana** from *4th Sem BCA - A* has successfully completed her training in ***"Data Science"*** from 14th June 2023 to 3rd September 2023. During this period the student was found to be dedicated, determined and hardworking.

- **Mandira. R** from *4th Sem BCA - A* has been awarded with a certificate in recognition of successful completion of C, C++ course conducted from 7th June 2022 to 12th July 2022 and secured grade ***"HONOURS"***.

- **Sharon Prince Thomas** from *2nd Sem BCA - A* has been awarded with a certificate in recognition of her achievement in the National Entrepreneurship Challenge 2023 organized by E-Cell, IIT Bombay from 2nd February 2024 to 4th February 2024. The team has got 8th rank amongst 65 teams participated.

- **Mohammed Rayan** from *2nd Sem BCA - A* has successfully completed Play It Safe: Manage Security Risks and Foundations of Cybersecurity an online non-credit course authorized by Google and offered through Coursera.

STUDENT FEEDBACKS (Batch 2021 - 2024)

Mohammed Suwed Ali (6th Sem BCA - A) : *Graduating from St. Francis College has been an incredible journey filled with growth, challenges, and unforgettable memories. The rigorous academics pushed me to think critically and manage my time effectively, while the supportive professors and collaborative projects enhanced my learning experience. Extracurricular activities helped me develop leadership skills and forge lasting friendships. However, I believe there are areas for improvement. Greater curriculum flexibility could help students explore diverse interests. Enhanced mental health support is crucial for managing the stress of college life. Additionally, expanding career services to offer more internships and networking opportunities would better prepare us for the job market. Overall, I am grateful for the opportunities and experiences St. Francis College provided. The knowledge and skills I've gained, along with the relationships built, have prepared me well for the future.*

Sahil Rajesh (6th Sem BCA - A) : *Hello everyone! I'm Sahil Rajesh, ex-Secretary (2022-23) of the IT Club, Impetus. I want to share my experience at St. Francis College. Thanks to my teachers, parents, and friends, I've grown into the person I am today. Arriving as an introvert, I explored new fields and participated in various events, winning 3rd place in the Best Manager event. This boosted my confidence, leading me to debates, group discussions, and athletic events. I also excelled in intercollegiate events. My time at St. Francis College was unforgettable, filled with fun and growth. Thank you, St. Francis College! Until next time, folks!.*

Joel Joseph Motha (6th Sem BCA - B) : *My journey at St. Francis College has taught me to never give up, pushing me to discover my true potential with the unwavering support of the faculty. From the friends I made in my first semester to the family I know in my last semester, the bonds I've formed are irreplaceable, shaped by heartbreaks, dying laughter, and countless emotions. These experiences have truly made me who I am today. It was an amazing blend of academics and cultural activities, where learning went hand-in-hand with forming lasting relationships. It shaped me as a person, career-wise, and personality-wise, preparing me for the future with confidence. While the cloudy days brought challenges, they made the sunny days even more rewarding, teaching me that life must move on. As I step into the next chapter of my life, I am profoundly grateful for every lesson, friendship, and moment spent at St. Francis College. Though my time here has ended, the memories and bonds will stay with me forever.*

Syed Mohammed Luqmaan (6th Sem BCA - B) : *My time at St. Francis College in Koramangala has been transformative, significantly contributing to my personal growth and overall personality development. The nurturing environment, strong academic curriculum, and diverse extracurricular activities provided a holistic learning experience. The dedicated faculty encouraged me to strive for excellence and build confidence, while participating in various clubs honed my leadership and communication skills, fostering responsibility and teamwork. The diverse student body broadened my perspectives and promoted inclusivity, leading to deep connections and friendships that have become family for life. These bonds, built on trust, understanding, and mutual growth, have been a cornerstone of my college journey, providing unwavering support and lasting memories. The supportive atmosphere and emphasis on moral values instilled a sense of integrity and empathy, shaping me into a well-rounded individual prepared for future challenges.*

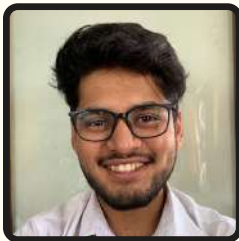# NEWSPAPER EDITORIAL TEAM (2023 - 2024)

Sabitha S
HOD

Mary Stella
Faculty Supervisor

Alan John A
Editor-in-Chief

Joel Joseph Motha
Proof Reader

Syed Mohammed Luqmaan
Proof Reader

Praveen S
Key Contributor

Contributors

Akash Kumar Mouriya

Vamsi S

Dhanushree R

P Akash

Sahil Rajesh

S Shashanth Babu

Melvin V

Ishika Ghosh

Revanth

Jayaraj K

Albin Thomas

Tejashwini C

Abhay S Panicher

Tahiya Shoukath

Hari Charan V

Mohammed Rayan

Sharon Prince Thomas

Asanth

Markleeng
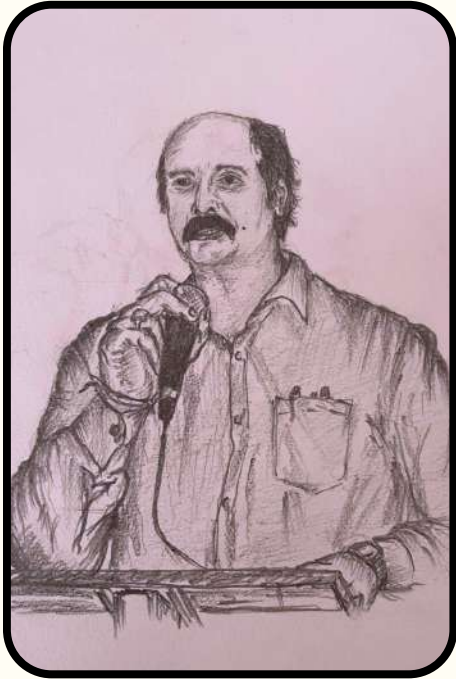
Chandru

Anthony

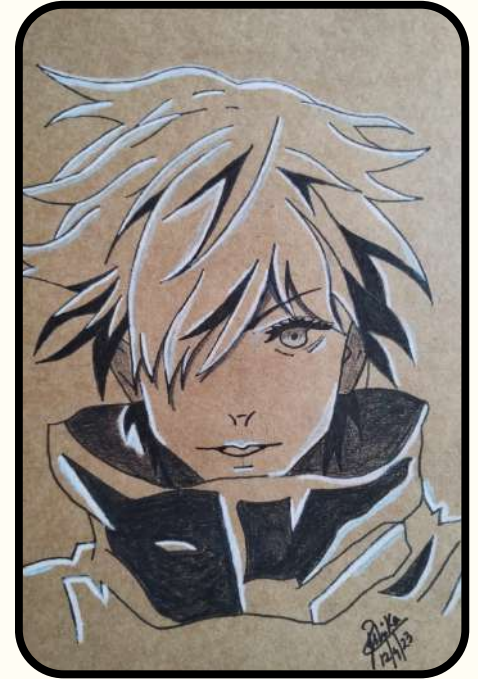**Kalpana**

Jaisheela

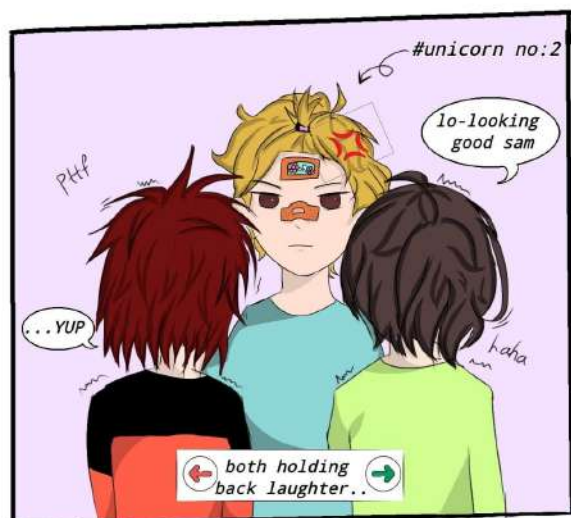**Vaibhavi**

🎨 Sketches

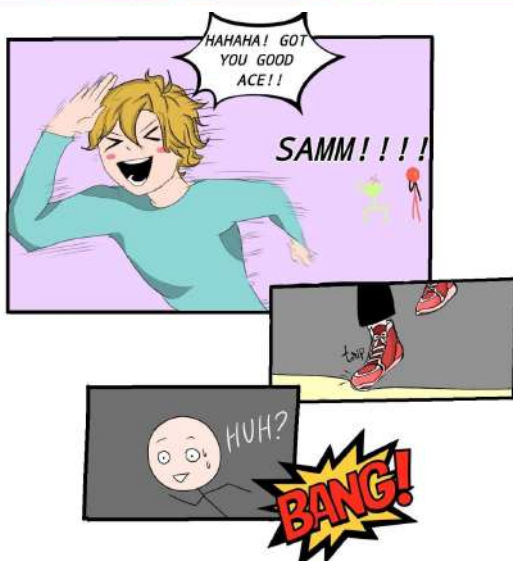**By Markleeng (2nd Sem BCA-A)**

By Melvin V (6th Sem BCA-B)

By Ishika Ghosh (6th Sem BCA-B)

🏃 Comics

By Tejashwini (4th Sem BCA - B)

Mind Maze 🎲

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X O K F M N F G A L L L A C E R M R P A
B F H Q O E P M H X G F Z V A E O M J H
I O F H A C X S H O N D X E F G Q R K H
C O T T E S T I N G I F A Q D R T W S S
Y Y U Y Q Y T W M N R I T H Y E Z L Z U
P R J Z W J P H O M E C E C J S B Y R D
E D Q F U A T I D U T M N Q X S F K J A
O H W H K I T Y E H S R S B M I S G A Q
C W L K R C D F L U U O O H Z O Z M E M
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W O G D T N O I T A C I F I S S A L C S
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A R S Z C C R R E I N F O R C E M E N T
P E G L W L R O I N M F W W U D P O N U
T R A I N I N G O P T I M I Z A T I O N
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Find the following words:

Algorithm, Analysis, Classification, Clustering, Dataset, Feature, Model, Optimization , Prediction, Python, Recall, Regression, Reinforcement, TensorFlow, Testing, Training

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🏅 Toppers Corner (5th Semester - Batch 2021) 🏅

Dhanushree R
SGPA - 10.0

Sneha N
SGPA - 9.78

Vamsi S
SGPA - 9.54