

NOUVELLE LIBERATION

Volume 11, Issue 4



Department of Computer Applications
Chitkara University Institute of Engineering and Technology
Chitkara University, Punjab



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BIENVENUE 2025 - TALENT HUNT

UBienvenue 2025 Talent Hunt at Einstein Hall to welcome the new batch of students. Held from 9:30 AM to 12:30 PM, the event provided a vibrant platform for freshers to showcase their skills across three exciting rounds: Modeling, a Talent Showcase, and a Q&A segment. Participants impressed the audience with various performances, including ramp walks, singing, dancing, and witty stage presence. The celebration culminated in the crowning of winners, with Rudra titled Mr. Fresher, Jagandeep as Ms. Fresher, Raghav as Mr. Personality, and Aishpreet as Ms. Elegance. Beyond cultural expression, the event successfully fostered unity between juniors and seniors, leaving participants with lasting memories and a stronger sense of belonging within the academic community.



CHITKARA UNIVERSITY  

FRESHERS PARTY
Bienvenue 2025
TALENT HUNT

September 26, 2025
09:30 AM - 12:30 PM | Einstein Hall

THREE ROUNDS

 MODELING |  TALENT ROUND |  Q/A ROUND

Organised by
Matrix club under the aegis of
Department of Computer Applications
Chitkara University Punjab



Scan to Register



DIWALI CELEBRATION – RANGOLI & TORAN MAKING COMPETITION

On October 17, 2025, the Department of Computer Applications under the Matrix Club at Chitkara University, Punjab, celebrated Diwali by organizing a "Rangoli and Toran Making Competition" at the De-Morgan Block. Centered on the themes of Floral and Mandala Art, the event encouraged students to showcase their artistic talents using vibrant colors and eco-friendly materials. The campus was transformed into a festive hub as participants adorned the space with intricate designs, while students and faculty members dressed in traditional ethnic attire to spread joy and positivity. By focusing on traditional art forms, the competition successfully promoted cultural values, fostered teamwork, and provided a platform for creative expression within the university community.

MATRIX
DISCOVER YOURSELF

CHITKARA UNIVERSITY

YOU ARE INVITED TO

Diwali Celebration

Rangoli Competition & Toran Making competition

Theme - Floral, Mandala art

Note:- [ETHNIC WEAR IS ALLOWED]

OCTOBER

FRIDAY **17** AT 10:00 AM

DE-MORGAN BLOCK, CUIET

Registration QR

Organised By
Department Of Computer Applications Under
Chitkara University Punjab



ECHOES AFTER HALLOWEEN – THE TREASURE HUNT

Department of Computer Applications, under matrix club organized an event on 19th November 2025 entitled "Echoes after Halloween The Treasure Hunt" which nurtured leadership qualities and creative thinking. Participants experienced a sense of collaboration, enthusiasm, and healthy competition. The event enriched student interaction and strengthened the cultural spirit of the Matrix Club.



CHITKARA UNIVERSITY  

Echoes after Halloween

The Treasure Hunt

 19th Nov, 2025
9:00 AM Onwards

 Venue: Alpha Zone

Winners will get Goodies..

Organised by:
Matrix Club under the aegis of
Department of Computer Applications
Chitkara University, Punjab

Scan For Registration 



2 DAY WORKSHOP ON PIONEERING INNOVATION IN FRONT END DEVELOPMENT FOR DIGITAL ENTREPRENEURS-2

Under the aegis of the Department of Computer Applications at Chitkara University, Punjab, the CSI Student Chapter organized a 2-day workshop titled "Pioneering Innovation in Front-End Development for Digital Entrepreneurs" from July 9–10, 2025 conducted by Dr. Amanpreet Singh, an Associate Professor, the session provided 73 participants with hands-on experience in modern front-end technologies and the Joomla Content Management System. Dr. Singh detailed the core building blocks of Joomla—including components, modules, plugins, and templates—and demonstrated how to develop sites locally before publishing them online using FileZilla. The workshop, which aligned with SDG 4: Quality Education, covered essential topics such as site structure planning, user role management, and extension integration. Ultimately, the interactive event empowered students with practical website deployment skills and best practices for efficient CMS usage, fostering innovation and digital entrepreneurship.



2 Day Workshop on Pioneering Innovation in Front-End Development for Digital Entrepreneurs

Resource Person:
Dr. Amanpreet Singh
Associate Professor,
Department of Computer Applications,
Chitkara University, Punjab

Date: 9th-10th, July-2025
Timings: 10 Am onwards
Mode: Offline
Venue: DeMorgan Block,
Chitkara University, Punjab



EXPERT TALK ON ENTREPRENEURSHIP: INNOVATION TO INCUBATION-THE START UP JOURNEY

On July 10, 2025, the CSI Student Chapter under the Department of Computer Applications at Chitkara University, Punjab, organized an offline expert talk titled "Entrepreneurship: Innovation to Incubation - The Startup Journey" at the Rockefeller Block. The session, which drew 215 participants and aligned with SDG 4: Quality Education, was led by Mr. Piyush Garg, Vice President of Chitkara Entrepreneurship Education and Development. Mr. Garg delivered an insightful presentation on the evolution of innovative ideas into successful startups, emphasizing incubation as a critical bridge between ideation and enterprise formation. The discussion covered the essential stages of the entrepreneurial lifecycle, including idea generation, validation, funding, team building, and scaling, while also highlighting the robust startup ecosystem and support systems available in India. By sharing real-life success stories and discussing the importance of business models and mentorship, the talk inspired students to identify real-world problems and equipped them with the practical knowledge necessary to launch their own impactful ventures.



CHITKARA UNIVERSITY

EXPERT TALK ON

ENTREPRENEURSHIP: INNOVATION TO INCUBATION-THE STARTUP JOURNEY

Resource Person:
Mr. Piyush Garg
Vice President,
Chitkara Entrepreneurship Education and Development,
Chitkara University, Punjab

Date: 10th, July-2025
Timings: 10 AM Onwards
Mode: Offline
Venue: Rockefeller Block,
Chitkara University, Punjab

Organised by:
CSI Student Chapter, Department of Computer Applications,
Chitkara University, Punjab



EXPERT TALK ON THE ROLE OF CLOUD COMPUTING IN ACCELERATING INNOVATION

On July 11, 2025, the CSI Student Chapter at Chitkara University, Punjab, hosted an online expert talk titled "The Role of Cloud Computing in Accelerating Innovation," featuring Dr. V. Srikanth from the GITAM School of Science. The session, attended by 66 participants, provided a comprehensive overview of cloud computing fundamentals and its transformative impact on modern digital innovation. Dr. Srikanth emphasized how cloud technologies provide essential scalability and flexibility, allowing businesses to access on-demand resources and advanced tools like AI and big data analytics without significant upfront hardware investments. The talk detailed various cloud service models—IaaS, PaaS, and SaaS—and illustrated how shifting from capital to operational expenditure enables rapid experimentation and global collaboration. By exploring real-world applications and career opportunities in cloud architecture, the event, which supported SDG 4: Quality Education, successfully encouraged students to adopt cloud-native approaches for technical problem-solving and industrial growth.

3. Access to Advanced Technologies

- Cloud computing democratizes access to cutting-edge technologies such as artificial intelligence (AI), machine learning (ML), big data analytics, and the Internet of Things (IoT).
- Cloud providers offer these advanced services as part of their platforms, enabling businesses to integrate sophisticated capabilities into their operations without the need for specialized expertise or significant investment.
- For example, a business can use cloud-based AI tools to analyze customer data, personalize marketing campaigns, or automate processes.
- Similarly, IoT devices connected through the cloud can gather real-time data, providing insights that drive innovation in product development, supply chain management, and customer service.

Conclusion

- In conclusion, Cloud computing is not just a technological shift but a catalyst for innovation, enabling businesses to adapt to the dynamic digital landscape, optimize their operations, and achieve sustainable growth.

EXPERT LECTURE ON LEVERAGING INNOVATION THROUGH DATA ANALYTICS

The CSI Student Chapter at Chitkara University, Punjab, organized an expert talk titled "Leveraging Innovation through Data Analytics" on July 16, 2025 held at the DeMorgan Block. Led by Dr. Deepika Chaudhary, a Professor in the Department of Computer Applications, the offline session focused on the fundamental role data analytics plays in fostering modern industrial innovation. The 58 participants learned how organizations utilize data-driven approaches to identify trends, optimize processes, and maintain a competitive edge in various business domains. By examining real-world use cases, students were encouraged to develop critical analytical thinking and were introduced to various career and research pathways within the data science ecosystem. This event, aligned with SDG 4: Quality Education, successfully motivated attendees to apply analytical tools to solve complex problems and drive product or service improvements.



Expert Talk on Leveraging Innovation through Data Analytics

Date: 16th, July-2025
Timing: 10 AM onwards
Mode: Offline
Venue: DeMorgan Block, Chitkara University, Punjab

Resource Person:
 ✓ Dr. Deepika Chaudhary, Professor, Department of Computer Applications, Chitkara University, Punjab

~ Organized by ~ CSI Student Chapter, Department of Computer Applications, Chitkara University, Punjab



EXPERT LECTURE ON INNOVATIONS IN CRITICAL ASPECTS OF DATA STRUCTURES

CSI Student Chapter under the aegis of Department of Computer Applications, Chitkara University, Punjab, organized an Expert Lecture on “Innovations in Critical Aspects of Data Structures” on 23rd July 2025 in offline mode at the De Morgan Block, Chitkara University. The session was delivered by Dr. Nishu Bali, Associate Professor, Department of Computer Applications, Chitkara University. Dr. Bali introduced students to the evolving landscape of data structures and the role of innovation in enhancing their efficiency. The lecture emphasized various critical concepts including dynamic data structures, advanced memory management techniques, and algorithmic optimization strategies. Dr. Nishu also shared real-world use cases and insights into how innovations in data structures are applied in modern software systems, databases, and high-performance computing. Students were encouraged to think critically and explore advanced topics beyond the curriculum. This session empowered students with both conceptual clarity and practical direction, fostering a deeper understanding of data structures and their significance in the field of computer science.

CHITKARA UNIVERSITY  

Expert Lecture on
INNOVATIONS IN CRITICAL ASPECTS OF DATA STRUCTURES

Resource Person
Dr. Nishu Bali
Associate Professor
Department of Computer Applications
Chitkara University

 23rd July, 2025
 10:00 AM Onwards
 De Morgan Block
Chitkara University

Mode: Offline

Student Coordinator:
Gursimran +91 6280300550

Organized by:
CSI Student Chapter,
Department of Computer Applications
Chitkara University





EXPERT TALK ON HARNESSING INNOVATION THROUGH THE MERN STACK ECOSYSTEM

CSI Student Chapter under the aegis of Department of Computer Applications, Chitkara University, Punjab, organized an Expert Talk on “Harnessing Innovation through the MERN Stack Ecosystem” on 29th July 2025 in offline mode at Pierre Hall (Le Corbusier Block), Chitkara University, Punjab. The session was led by Ms. Khushi Sharma, Software Developer at ElectroVese Solutions Pvt. Ltd. She provided an insightful overview of the MERN stack and its integral role in modern web development. The session covered the architecture and integration of MongoDB, Express.js, React, and Node.js to create dynamic, responsive, and full-featured web applications. Ms. Khushi highlighted the current trends, career scope, and real-time use cases in full-stack development. She also shared practical coding tips and project ideas that inspired students to apply what they learned to real-world scenarios. The session was highly engaging and ignited interest among students to explore web technologies in depth.



CHITKARA UNIVERSITY

HARNESSING INNOVATION THROUGH THE MERN STACK ECOSYSTEM

Resource Person
Khushi Sharma
 Software Developer
 ElectroVese Solutions Pvt. Ltd.

29th July, 2025 (Mode: Offline)
 10:00 AM Onwards

Pierre Hall (Le Corbusier Block)
 Chitkara University, Punjab

Organised by:
 CSI Student Chapter
 Department of Computer Applications
 Chitkara University, Punjab

INSTITUTION'S INNOVATION COUNCIL
 (Ministry of HRD Initiative)



EXPERT LECTURE ON DRIVING INNOVATION WITH GITHUB

An expert lecture titled “Driving Innovation with GitHub” was conducted by the CSI Student Chapter in collaboration with the Department of Computer Applications, Chitkara University, Punjab, on 4th August 2025. The session took place in offline mode at De Morgan Block, Chitkara University, Punjab. The session was delivered by Ms. Rajwinder Kaur, Assistant Professor, Department of Computer Applications, Chitkara University, Punjab. Ms. Rajwinder provided hands-on insights into GitHub as an essential tool for collaborative software development and innovation in tech-based projects. She covered key topics such as version control using Git, creating and managing repositories, branching, merging, pull requests, and contributing to open-source projects. The session also highlighted real-world use cases where GitHub plays a central role in managing enterprise-level software projects. This expert lecture enabled students to understand how GitHub enhances productivity, fosters teamwork, and plays a crucial role in career development for software professionals.

CHITKARA UNIVERSITY

COMPUTER SOCIETY OF INDIA

Expert Lecture on **Driving Innovation** with **GitHub**

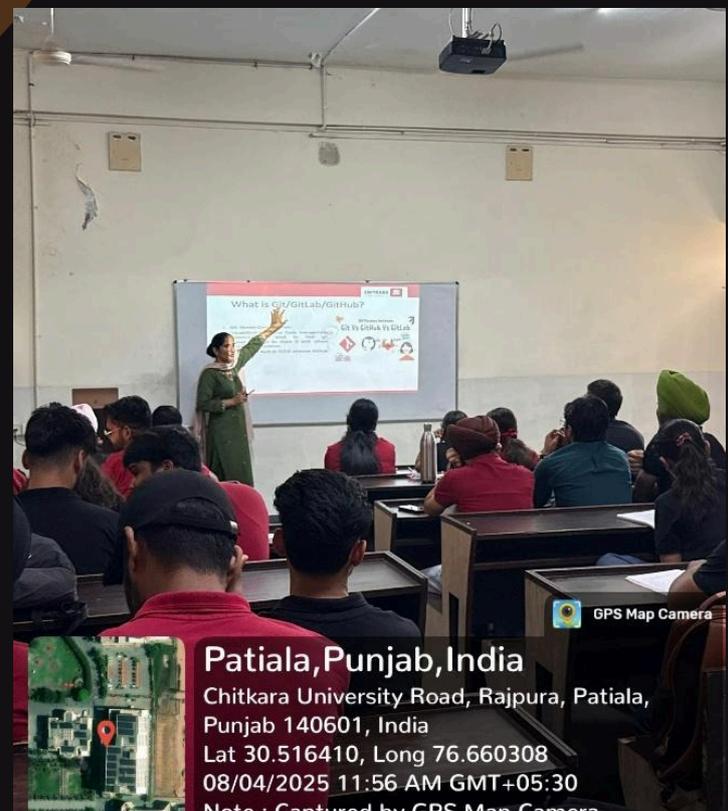
Resource Person
Rajwinder Kaur
 Assistant Professor
 Department of Computer Applications
 Chitkara University, Punjab

Student Coordinator
 Luvya Aggarwal
 +91 7973506774

4th August, 2025
10:00 AM Onwards
De Morgan Block
Chitkara University
Mode: Offline

Organised by
 CSI Student Chapter
 Department of Computer Applications
 Chitkara University, Punjab

INSTITUTIONS INNOVATION COUNCIL



EXPERT LECTURE ON INNOVATIONS IN DATABASE TECHNOLOGIES

An expert lecture on “Innovations in Database Technologies” was successfully conducted in collaboration with the CSI Student Chapter and the Department of Computer Applications, Chitkara University, Punjab, on 5th August 2025. The event was held offline at the De Morgan Block of Chitkara University, Punjab. The session was led by Dr. Amandeep Bhullar, Professor, Department of Computer Applications, Chitkara University, Punjab. Dr. Bhullar enlightened the participants with modern developments in database technologies, ranging from NoSQL systems and distributed databases to real-time data processing and cloud-based data platforms. The lecture also discussed practical implementations, performance optimization techniques, and scalability challenges in large-scale data-driven systems. The speaker emphasized the growing need for adaptable database solutions in today’s fast-evolving tech landscape. This expert session helped bridge the gap between traditional data management concepts and modern innovations crucial for today’s data-centric world.



Resource Person

Dr. Amandeep Bhullar
Professor,
Department of Computer
Applications, Chitkara University
Punjab

Date : 5th August, 2025
Time : 10:00 AM Onwards
Venue : De Morgan Block
Mode : Offline

Student Coordinator
Luvya Aggarwal
+91 7973506774

Organised by
CSI Student Chapter,
Department of Computer Applications,
Chitkara University, Punjab



EXPERT LECTURE ON EMPOWERING INNOVATION AND ENTREPRENEURSHIP THROUGH MACHINE LEARNING

An expert talk titled “Empowering Innovation and Entrepreneurship through Machine Learning” was organized by the CSI Student Chapter in collaboration with the Department of Computer Applications, Chitkara University. The session was conducted in a hybrid mode on 24th September 2025, from 10:00 AM onwards at the De Morgan Block. The event featured two esteemed resource persons: Dr. Gurmeet Kaur, Assistant Professor at the Panipat Institute of Engineering and Technology, Panipat, and Dr. Deepika Chaudhary, Professor at the Department of Computer Applications, Chitkara University. Together, they delivered a compelling session on the intersection of artificial intelligence and business. The speakers covered the core principles of Machine Learning and demonstrated its application in creating innovative products and services. They discussed several real-world case studies of successful startups that have ML at their core, providing students with a practical roadmap from ideation to execution. The talk aimed to equip students with the knowledge to identify market gaps and develop intelligent solutions, fostering a new generation of tech entrepreneurs.

CHITKARA UNIVERSITY

Expert Talk on ▶
EMPOWERING INNOVATION AND ENTREPRENEURSHIP THROUGH MACHINE LEARNING

RESOURCE PERSONS

Dr. Gurmeet Kaur
 Assistant Professor
 Panipat Institute of Engineering and Technology, Panipat

Dr. Deepika Chaudhary
 Professor
 Department of Computer Applications
 Chitkara University, Punjab

24th Sept, 2025 | 10:00 AM Onwards
 De Morgan Block, Chitkara University
 Hybrid

Student Co-ordinator
 Gursimran Singh
 6280300550

Organised by: CSI Student Chapter
 Department of Computer Applications
 Chitkara University, Punjab

INSTITUTION'S INNOVATION COUNCIL
 Ministry of IITD, India



Predict a numerical value.

- use prices
- a person's weight
- stock prices
- real number (e.g., etc.)

Metrics: MSE,

Case Study – Weather Forecasting (Regression)

Predictors					Target
Outlook	Temp	Humidity	Windy	Hours Played	
Sunny	Hot	High	False	16	
Sunny	Mild	High	False	10	
Sunny	Hot	Normal	False	14	
Sunny	Mild	Normal	False	13	
Sunny	Hot	High	True	13	
Sunny	Mild	High	True	16	
Sunny	Hot	Normal	True	14	
Sunny	Mild	Normal	True	13	
Sunny	Hot	High	False	16	
Sunny	Mild	High	False	10	
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Sunny	Hot	High	True	13	
Sunny	Mild	High	True	16	
Sunny	Hot	Normal	True	14	
Sunny	Mild	Normal	True	13	
Sunny	Hot	High	False	16	
Sunny	Mild	High	False	10	
Sunny	Hot	Normal	False	14	
Sunny	Mild	Normal	False	13	
Sunny	Hot	High	True	13	
Sunny	Mild	High	True	16	
Sunny	Hot	Normal	True	14	
Sunny	Mild	Normal	True	13	
Sunny	Hot	High	False	16	
Sunny	Mild	High	False	10	
Sunny	Hot	Normal	False	14	
Sunny	Mild	Normal	False	13	
Sunny	Hot	High	True	13	
Sunny	Mild	High	True	16	
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Sunny	Mild	Normal	False	13	
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Sunny	Mild	Normal	True	13	
Sunny	Hot	High	False	16	
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Sunny	Mild	Normal	False	13	
Sunny	Hot	High	True	13	
Sunny	Mild	High	True	16	
Sunny	Hot	Normal	True	14	
Sunny	Mild	Normal	True	13	
Sunny	Hot	High	False	16	
Sunny	Mild	High	False	10	

WORKSHOP ON GENERATIVE AI: FOSTERING INNOVATION, CREATIVITY AND ENTREPRENEURIAL GROWTH

A hands-on workshop titled “Generative AI: Fostering Innovation, Creativity, and Entrepreneurial Growth” was organized by the CSI Student Chapter of the Department of Computer Applications, Chitkara University, in collaboration with Grazitti Interactive. The offline event was held on 25th September 2025, from 12:00 PM onwards at Turing Extension LH-08. The workshop was conducted by Mr. Jaswinder Singh, Senior Manager (Learning & Development) at Skillstone, Grazitti Interactive. He provided an immersive learning experience into the world of Generative AI, moving beyond theory to focus on practical applications. Mr. Singh guided the students through the capabilities of modern Generative AI tools, showcasing how they can be leveraged to create novel content, streamline workflows, and spark innovative ideas. The session also placed a strong emphasis on the business landscape, highlighting how this technology is paving the way for new startups and fostering entrepreneurial growth. Participants left with a clear understanding of how to harness the power of Generative AI for both creative expression and commercial success.



CHITKARA UNIVERSITY

Grazitti Interactive
Marketing for Digital Nati

Workshop on •
Generative AI Fostering Innovation, Creativity, and Entrepreneurial Growth

Date
25th September, 2025

Time
12:00 PM Onwards

Venue
Turing Extension LH-08

Mode
Offline

Organised by
CSI Student Chapter
Department Of Computer Applications
Chitkara University Punjab.

Resource Person



Jaswinder Singh
Senior Manager
(Learning & Development)
Skillstone, Grazitti Interactive

INSTITUTION'S INNOVATION COUNCIL



AN EXPERT TALK ON AI INNOVATIONS TRANSFORMING THE LANDSCAPE OF CYBERSECURITY

An expert talk titled “AI Innovations Transforming the Landscape of Cybersecurity” was organized by the Department of Computer Applications, Chitkara University, Punjab. The session was held in offline mode on 4th November 2025, starting at 10:00 AM in Henry Ford Hall, Martin Luther Block. The session was delivered by Mr. Lalit Kumar, a Senior Software Developer at Techlive Solutions, Mohali. As an industry expert, Mr. Kumar provided a comprehensive overview of the critical role AI is playing in revolutionizing cybersecurity. He discussed how machine learning algorithms and AI models are being used to identify sophisticated cyber threats, automate security responses, and predict potential vulnerabilities before they can be exploited. The talk covered cutting-edge topics such as AI-powered intrusion detection systems, malware analysis, and the future of autonomous security. This expert talk gave students a clear understanding of the synergy between AI and cybersecurity.



CHITKARA UNIVERSITY

EXPERT TALK ON

AI INNOVATIONS TRANSFORMING THE LANDSCAPE OF CYBERSECURITY

Resource Person

LALIT KUMAR
Senior Software Developer
Techlive Solutions, Mohali

4th NOV, 2025
10:00 AM Onwards

Henry Ford Hall
Martin Luther Block

Mode: Offline

Faculty Co-ordinator
Dr. Neelam Dahiya
Associate Professor
Department of
Computer Applications
Chitkara University, Punjab

Student Co-ordinator
Gursimran Singh | 6280300550

Organised by
Department of Computer Applications
Chitkara University, Punjab

INSTITUTION'S INNOVATION COUNCIL



EXPERT TALK ON FROM CAMPUS TO CAREER

On August 22, 2025, the Alumni Connect Team and the Department of Computer Applications, in collaboration with the Institution's Innovation Council (IIC), hosted a technical discourse entitled "From Campus to Career: Harnessing Opportunities Through Critical Thinking & Innovation." Led by Mr. Harjinder Singh, Senior Technical Lead at Ernst and Young Global Delivery (EY GDS), the session focused on the industrial application of critical thinking as a heuristic for complex problem-solving. Mr. Singh detailed the transition from theoretical academic frameworks to the agile, high-pressure environments of global delivery centers, emphasizing the necessity of an innovative mindset to optimize workflow and resolve systemic bottlenecks. The discussion moved beyond basic career advice to address specific core competencies required in top-tier consultancy firms, including the ability to leverage analytical methodologies to identify and exploit market opportunities. By integrating real-world architectural challenges and professional case studies from his tenure at EY, the session equipped participants with a refined understanding of the technical agility and professional competencies essential for scaling the global corporate hierarchy.

CHITKARA UNIVERSITY

Expert Talk on
From Campus to Career: Harnessing Opportunities Through Critical Thinking & Innovation

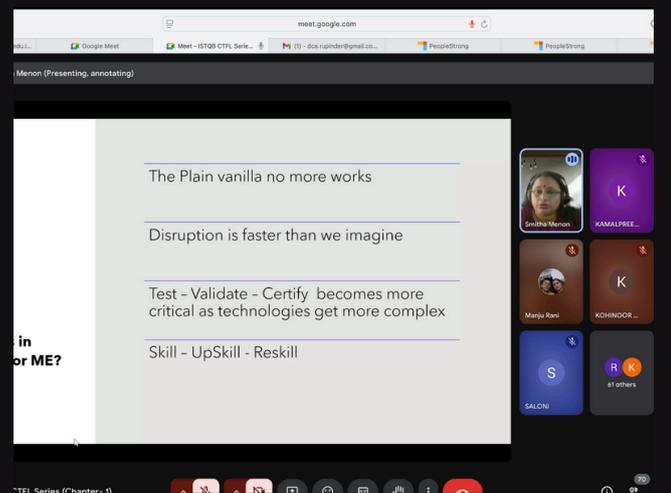
22nd August, 2025 | Demorgan's Block

Mode: Offline

Resource Person
Harjinder Singh
 Senior Technical Lead
 Ernst and Young Global delivery (EY GDS)

Faculty Coordinator
Dr. Vandana
 Associate Professor
 Chitkara University, Punjab

Organised by
 Alumni Connect Team under the aegis of
 Department of Computer Applications
 in collaboration with IIC, Chitkara University, Punjab



AN EXPERT TALK ON CRITICAL THINKING ON ISTQB FOUNDATION LEVEL CHAPTER SERIES (CHAPTER-1)

An expert talk titled “Critical Thinking on ISTQB Foundation Level Chapter Series (Chapter-1)” was conducted by the Software Testing Club of the Department of Computer Applications, Chitkara University, Punjab. The session was held in online mode on 3rd September 2025, starting from 10:00 AM. The session was delivered by Ms. Smitha Menon, a Senior Consultant at Verify Software. As an industry expert, Ms. Menon provided deep insights into the first chapter of the ISTQB Foundation Level, covering the core concepts of software testing, its principles, and its importance in the software development lifecycle. She emphasized a critical thinking approach to understanding testing fundamentals, preparing students not just to pass the certification exam but to excel as quality assurance professionals. The talk marked the beginning of a series aimed at guiding students through the essential topics of the ISTQB certification, bridging the gap between academic knowledge and industry standards.

CHITKARA UNIVERSITY **itb INDIAN TESTING BOARD** **stc SOFTWARE TESTING CLUB**

Expert Talk on
CRITICAL THINKING ON ISTQB FOUNDATION LEVEL CHAPTER SERIES (CHAPTER-1)

Resource Person
Smitha Menon
 Senior Consultant
 Verify Software

03
 September 2025
 10:00 AM Onwards
 Mode: Online

Faculty Co-ordinator
 Dr. Neelam Dahiya
 Associate Professor,
 Department of Computer Applications,
 Chitkara University, Punjab

Student Co-ordinator
 Simarjeet Singh
 (9639673072)

Organised by: Software Testing Club
 Department of Computer Applications
 Chitkara University, Punjab

INSTITUTION'S INNOVATION COUNCIL
 Ministry of Skill Development

meet.google.com

Smitha Menon (Presenting, annotating)

1.1 What is Testing

- Static Testing - no execution of component or system
 - Includes reviewing work products such as requirements, user stories, and source code
 - Identifies defects (the cause of the failure)
- Dynamic Testing - execution of component or system
 - Can be done at white box or black box level
 - Identifies failures rather than defects

meet.google.com

Smitha Menon (Presenting, annotating)

The Plain vanilla no more works

Disruption is faster than we imagine

Test - Validate - Certify becomes more critical as technologies get more complex

Skill - UpSkill - Reskill

What's in Store for ME?

meet.google.com

Smitha Menon (Presenting, annotating)

1.5 The Psychology of Testing

1.5.3 Independence of Testing

1. Independent test team
2. Independent test team
3. Independent test team
4. Independent test team
5. Independent test team

meet.google.com

Smitha Menon (Presenting, annotating)

1.2 Why is Testing Necessary?

1.2.3 Errors, Defects, and Failures

- A person can make an **error (mistake)**:
 - The error introduces a defect (bug) in the program code, or in a document.
- If a **defect** in the code is **executed**, the systems:
 - May fail to perform required action
 - Do something it should not, causing a **failure**
- All defects do not result in failures.
 - For example, unreachable code is a defect, but it does not cause failure
 - Functionalities missed in test case coverage

INNOVATING SKILLS FOR LASTING HAPPINESS: A JOURNEY TOWARDS CREATIVE GROWTH

The Department of Computer Applications at Chitkara University, Punjab, in collaboration with the Chitkara Happiness Centre and the Institution's Innovation Council (IIC), organized a session titled "Innovating Skills for Lasting Happiness: A Journey Towards Creative Growth" on September 18, 2025, at Carnegie Hall. Led by Mr. Manav Bansal, Chief Happiness Officer, the session explored the intrinsic link between emotional well-being and professional development, challenging students to view happiness as a skill that can be nurtured through creativity and innovation. Mr. Bansal emphasized the importance of aligning personal well-being with academic milestones.



A promotional poster for the session. At the top, it features the logos for Chitkara University and Chitkara Happiness Centre. The main title is "Innovating Skills for Lasting Happiness: A Journey Towards Creative Growth". Below the title, it identifies the expert as Manav Bansal, Chief Happiness Officer at Chitkara University Punjab. It also lists the Faculty Coordinator as Dr. Vandana, Associate Professor in the Department of Computer Applications. Event details include the date (18th September, 2025), time (02:00 PM Onwards), venue (Carnegie Hall), and mode (Offline). The poster is decorated with various yellow smiley face emojis. At the bottom, it mentions the organizing departments: Department of Computer Applications, Chitkara Happiness Centre, and IIC Chitkara University Punjab.



AN EXPERT TALK ON CRITICAL THINKING ON ISTQB FOUNDATION LEVEL CHAPTER SERIES (CHAPTER-3)

The Software Testing Club of the Department of Computer Applications, Chitkara University, successfully continued its expert talk series with a session on “Critical Thinking on ISTQB Foundation Level Chapter Series (Chapter-3).” The event was held in a hybrid mode on 16th October 2025, starting from 10:00 AM at the DeMorgan Block. This session once again featured the collaborative expertise of Ms. Smitha Menon, Senior Consultant at Verify Software, and Dr. Deepika Chaudhary, Professor at the Department of Computer Applications, Chitkara University. The expert duo provided a comprehensive overview of Static Testing, a key component of the ISTQB syllabus. The talk covered the core concepts of static testing, distinguishing it from dynamic testing. A significant portion was dedicated to explaining the formal review process—including its stages, roles (e.g., moderator, author, reviewer), and various review types (like walk-throughs, technical reviews, and inspections). The session also touched upon the use of static analysis tools to automatically detect defects and enforce coding standards.

CHITKARA UNIVERSITY   

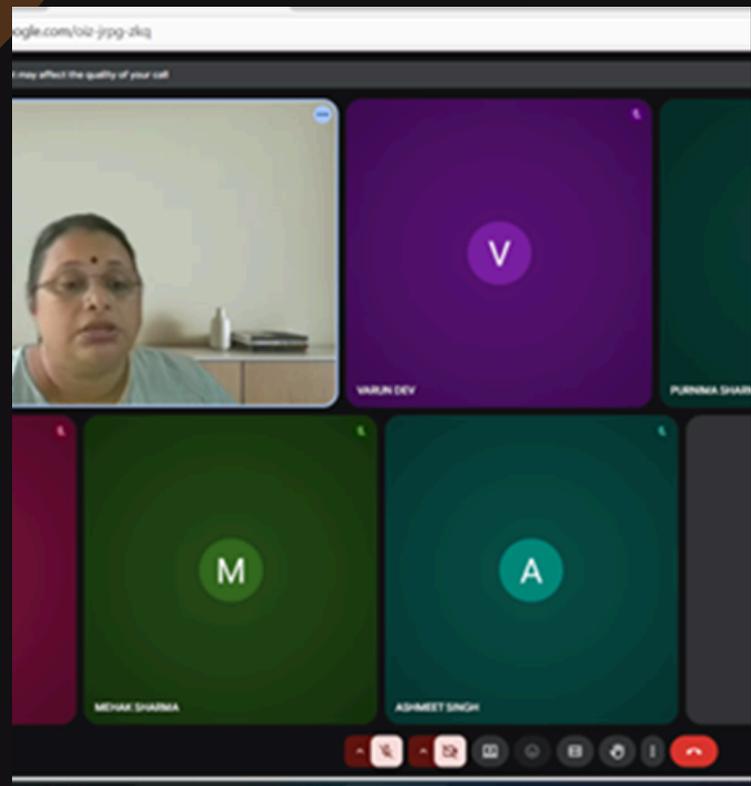
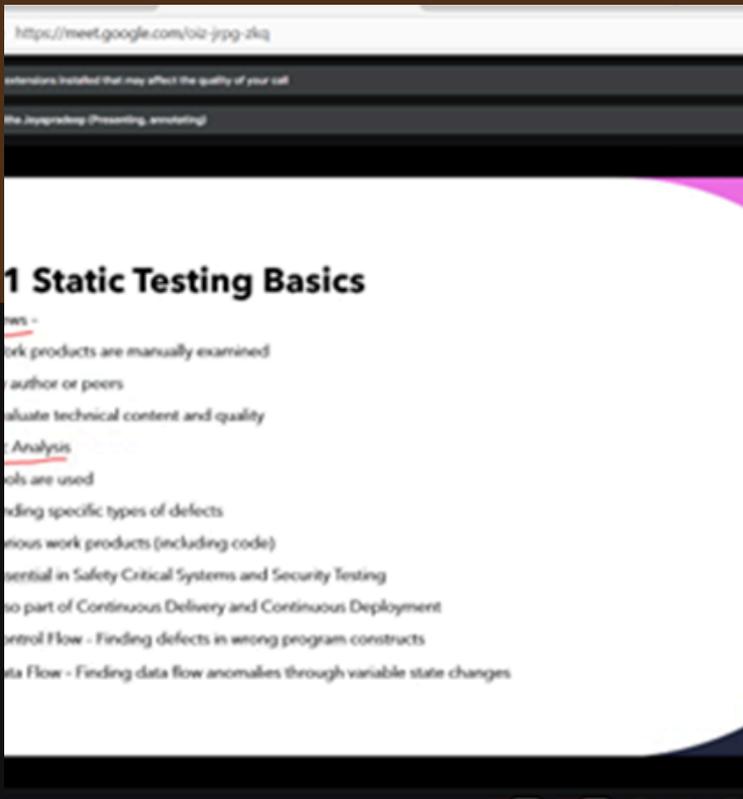
Expert Talk on
Critical Thinking On ISTQB Foundation Level Chapter Series Chapter-3

Resource Persons
Smitha Menon
Senior Consultant
Verify Software
Dr. Deepika Chaudhary
Professor
Department of Computer Applications
Chitkara University, Punjab

Date : 16th October, 2025
Time : 10:00 AM Onwards
Venue : Demorgan Block
Mode : Hybrid

Faculty Coordinator
Dr. Neelam Dahiya
Associate Professor
Department of Computer Applications
Chitkara University, Punjab

Student Coordinator
Simarjeet Singh
Contact No: +91 9639673072



AN EXPERT TALK ON CRITICAL THINKING ON ISTQB FOUNDATION LEVEL CHAPTER SERIES (CHAPTER-4)

Continuing its successful expert talk series, the Software Testing Club (STC) of the Department of Computer Applications, Chitkara University, hosted its latest session: "Critical Thinking with ISTQB Foundation Level Chapter Series (Chapter-4)." The event was successfully held in a hybrid mode on 30th October 2025, starting from 11:00 AM at the De-Morgan Block. This session brought together two distinguished experts: Dr. Jaswinder Singh, Associate Professor and Program Incharge (I-Alpha cluster) at the Department of Computer Science and Engineering, Chitkara University, and Ms. Smitha Menon, Senior Consultant at Verify Software. Their combined academic and industry perspectives offered a comprehensive look at "Test Techniques," a crucial part of the ISTQB syllabus. The speakers delved into the systematic methods used to design test cases, moving beyond ad-hoc testing. They provided practical examples of black-box, white-box, and experience-based techniques, demonstrating how to apply them effectively to uncover defects and ensure thorough test coverage.



CHITKARA UNIVERSITY **itb INDIAN TESTING BOARD** **stc SOFTWARE TESTING CLUB** **INSTITUTION'S INNOVATION COUNCIL**

EXPERT TALK ON CRITICAL THINKING WITH

ISTQB

FOUNDATION LEVEL CHAPTER SERIES (CHAPTER-4)

Resource Persons:

Dr. JASWINDER SINGH **SMITHA MENON**

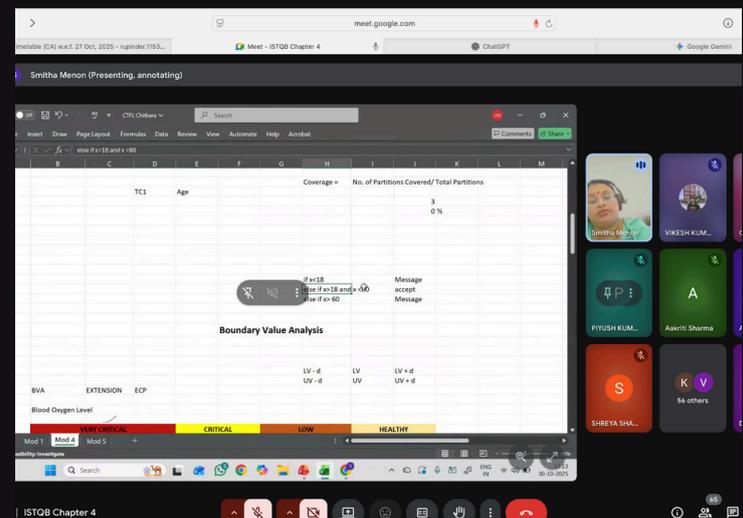
Associate Professor and Program Incharge (I-Alpha cluster)
Department of Computer Science and Engineering, Chitkara University

Senior Consultant
Verify Software

30 Oct 2025 11 am onwards Hybrid mode De-Morgan Block, Chitkara University

Student Coordinator **Organised by**

Simarjeet Singh STC - Software Testing Club
9639673072 Department of Computer Applications, Chitkara University



DRIVING INNOVATION IN CODING WITH COPILOT! – .NET CONF 2025

On 26th November 2025, the Department of Computer Applications, in association with the Institution's Innovation Council (IIC), organized an expert talk titled "Driving Innovation in Coding with Copilot! – .NET Conf 2025." The session was conducted in offline mode at DE Morgan's Block. The session was led by Ms. Sharda Kaur, Gold Microsoft Student Ambassador, who provided deep insights into AI-driven coding workflows and the future of software development using .NET 10. She demonstrated how tools like Microsoft Copilot can support faster, smarter, and more optimized code generation across various project environments. Students were introduced to .NET 10's latest enhancements, improved performance features, and compatibility updates. The live demonstrations showcased how Copilot assists developers in writing code, debugging, generating functions, and improving productivity through AI-powered suggestions. The session was highly interactive, with students engaging in discussions about AI ethics, industry expectations, and the evolving skillsets required for next-generation programmers. The talk successfully bridged the gap between theoretical learning and practical application by showing students how AI enhances creativity and technical accuracy in coding.

CHITKARA UNIVERSITY |

A talk on

Driving Innovation in Coding with Copilot! – .NET Conf 2025

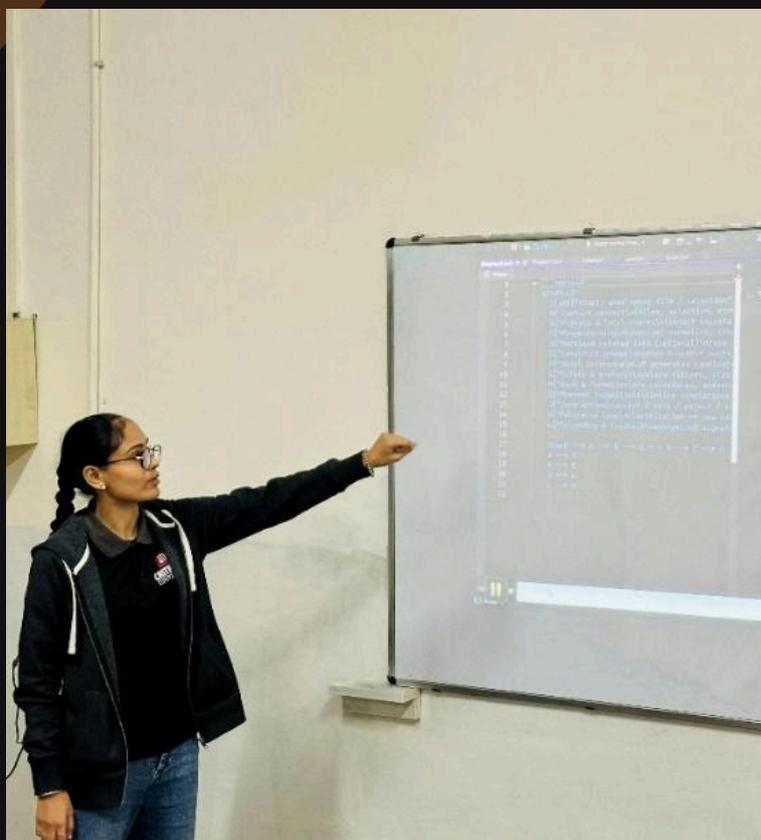
Learn • Build • Connect with .NET 10

Resource Person
Sharda Kaur
Gold Microsoft Student Ambassador

26 / Nov / 2025
 10:30 a.m
 DE Morgan's Block

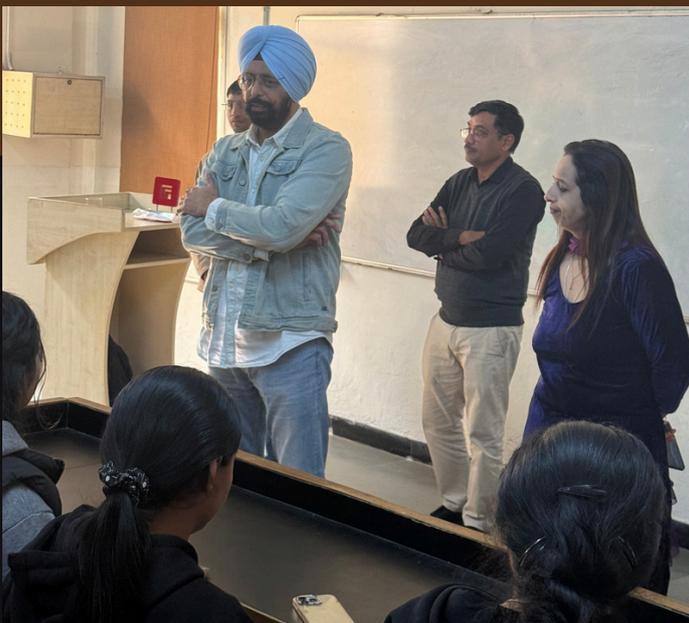
Mode: Offline

Organised By:
Department of Computer Applications in association with IIC, Chitkara University Punjab.



INNOVATIVE SKILLS ESSENTIAL FOR AI CAREERS AND LIFE BEYOND BORDERS

The Alumni Connect Team and the Department of Computer Applications, in collaboration with the Institution's Innovation Council (IIC), hosted an expert talk titled "Innovative Skills Essential for AI Careers and Life Beyond Borders" on 2nd December 2025 at the DeMorgan Block, Chitkara University, Punjab. The session featured Mr. Aditya Yadav, a distinguished alumnus (BCA 2020–2023) and current M.Sc. student at the University of Passau, Germany, who is conducting research in Generative AI at Bosch. Mr. Yadav provided 47 participants with a comprehensive roadmap for global success, emphasizing the necessity of strong foundations in data structures and algorithms alongside hands-on experience with machine learning and generative models. He shared practical guidance on navigating applications for German public universities, securing international research internships, and adapting to global work cultures. By bridging the gap between local academic principles and international industrial standards, the event successfully motivated students to pursue innovation-driven learning and explore cross-border professional growth in the evolving field of Artificial Intelligence.



CHITKARA UNIVERSITY 

Expert Talk on

Innovative Skills Essential for AI Careers and Life Beyond Borders

 **Aditya Yadav**
Ai Engineer, Bosch, Germany

📅 2nd Dec, 2025 🕒 10:30 AM Onwards
📍 LH-I Demorgan Block

Organised by
Department of Computer Applications 

Faculty Coordinators
Dr. Rajesh Kaushal, Professor
Dr. Naveen Sharma, Professor
Dr. Vandana, Associate Professor



STUDENT ACHIEVEMENT

We are delighted to announce that our team secured the Second Runner-Up position at the SAVISKAR Fest 2025, held at CGC University, Jhanjeri, on 14th October at the national level. Competing in the category “Nachda Punjab: Punjabi Folk,” our team delivered a dynamic performance that highlighted the rich cultural traditions and vibrant spirit of Punjab. This accomplishment reflects the hard work, dedication, and passion of our performers, as well as the consistent guidance and support from our mentors. We take great pride in this achievement and look forward to reaching even greater milestones in the future.



STUDENT ACHIEVEMENT

We are delighted to share that our team has proudly secured the 1st position in Tashanbaaz, at national level held on 18th September 2025. We were thrilled to be selected in the first round held at Chitkara University. After qualifying, we proudly represented the university and gave our final performance at CP 67 Mall. We are truly proud to be a part of Chitkara University, and we sincerely thank the university for giving us this wonderful opportunity to participate in Tashanbaaz. We're thrilled to bring this win home and celebrate the spirit of confidence, expression, and tashan that the event stood for.



STUDENT ACHIEVEMENT

We are thrilled to share that our team achieved the 1st Runner-Up position in the competition held at CGC Landran during the PARIVARTAN Fest at the national level on 7th November. This remarkable accomplishment highlights the unwavering dedication, discipline, and passion of our team, whose performance demonstrated both artistic excellence and a strong sense of teamwork. Their effort not only showcased their individual talents but also reflected the collective commitment to deliver a powerful and memorable presentation. We extend our appreciation to our mentors and supporters, whose guidance played a key role in this success. This achievement motivates us to continue striving for higher standards, greater creativity, and more milestones in the future.



BCA PLACEMENTS

S. No.	Univ. Roll	Name	Company
1	2310997031	ANMOL SHARMA	Infosys
2	2310997045	ASHIMA	Infosys
3	2310997067	DAKSH	Infosys
4	2310997076	DISHA	Infosys
5	2310997108	HITESH YADAV	Infosys
6	2310997119	JAPNEET KAUR	Tryfacta Global Solutions Pvt Ltd,Delhi
7	2310997142	KASHISH	WNS Global Services (P) Ltd,Gurgaon
8	2310997146	KETAN KUMAR GIRI	Infosys
9	2310997147	KHUSHI	Tryfacta Global Solutions Pvt Ltd,Delhi
10	2310997205	PIYUSH KUMAR	WNS Global Services (P) Ltd,Gurgaon
12	2310997251	SALONI	Infosys
14	2310997358	URVI	Infosys
15	2310997260	SARGUNPREET KAUR	Infosys
16	2310997243	ROSE SHARMA	Outline Systems India(P) Ltd,Mohali

BCA PLACEMENTS

S. No.	Univ. Roll	Name	Company
17	2310997193	OSHMEEN KAUR	Outline Systems India(P) Ltd, Mohali
18	2310997027	ANCHAL	Outline Systems India(P) Ltd, Mohali
19	2310997116	JAHNVI	Outline Systems India(P) Ltd, Mohali
20	2310997125	JASLEEN	Outline Systems India(P) Ltd, Mohali
21	2310997017	AGRIYA	Intellyk Systems Private Limited, Mohali
22	2310997032	ANSHIKA PAWAR	Intellyk Systems Private Limited, Mohali
23	2310997297	TANISH KUMAR	Intellyk Systems Private Limited, Mohali
24	2310997363	KOMAL	Outline Systems India(P) Ltd, Mohali
25	2310997043	ARYAN JINDAL	Intellyk Systems Private Limited, Mohali
26	2310997164	MANAV RANA	Outline Systems India(P) Ltd, Mohali
27	2310997013	ADITYA KUMAR	CS Soft Solutions Pvt Ltd, Mohali
28	2310997236	RISHI KUMAR JHA	CS Soft Solutions Pvt Ltd, Mohali
29	2310997244	SACHIN KUMAR	CS Soft Solutions Pvt Ltd, Mohali
30	2310997275	SIMARPREET SINGH	CS Soft Solutions Pvt Ltd, Mohali
31	2310997091	HAPPY YADAV	EaseMyTrip , Gurgaon
32	2310997325	VARUN VERMA	Teleperformance, Mohali

MCA PLACEMENTS

S. No.	Univ. Roll	Name	Company
1	2410987001	AABHAS JENA	Vibrantick Infotech Solutions
2	2410987006	ABHISHEK	Antier Solutions Pvt. Ltd.,Mohali
3	2410987009	AMAN SEGON	Bebo Technical Education Services Pvt. Ltd,Chandigarh
4	2410987011	AMIT KUMAR	Antier Solutions Pvt. Ltd.,Mohali
6	2410987016	ANSHIKA GOEL	Bebo Technical Education Services Pvt. Ltd,Chandigarh
7	2410987018	ANUJ KUMAR	Bebo Technical Education Services Pvt. Ltd,Chandigarh
8	2410987019	ANUSHKA PANDEY	ST MicroElectronics Pvt. Ltd.,Greater Noida
9	2410987022	ARYAN	Tryfacta Global Solutions Pvt. Ltd.,Mohali.
10	2410987032	CHEHAK MADAAN	TestingXperts Private Ltd.Chandigarh
11	2410987037	DEEPAKSHI	TestingXperts Private Ltd.Chandigarh
12	2410987038	DEEPIKA SINGH	Bebo Technical Education Services Pvt. Ltd,Chandigarh
13	2410987044	GUNN SHARMA	Bebo Technical Education Services Pvt. Ltd,Chandigarh

MCA PLACEMENTS

S. No.	Univ. Roll	Name	Company
14	2410987046	HARDIK KATHURIA	Bytecode Technologies Pvt. Lt., Sahibjaada Ajit Singh Nagar
15	2410987050	HIMANSHU	Omniful Technologies Pvt. Ltd., Gurgaon
16	2410987054	JAGNOOR SINGH	Bebo Technical Education Services Pvt. Ltd, Chandigarh
17	2410987057	JASWINDER SINGH	Bebo Technical Education Services Pvt. Ltd, Chandigarh
18	2410987059	JATIN MISHRA	Bebo Technical Education Services Pvt. Ltd, Chandigarh
19	2410987068	KARUNA	TestingXperts Private Ltd. Chandigarh
20	2410987071	KHUSHI SHARMA	TestingXperts Private Ltd. Chandigarh
21	2410987074	LOVEPREET KAUR	TestingXperts Private Ltd, Chandigarh
22	2410987075	MAHARSHI TRIPATHI	Bebo Technical Education Services Pvt. Ltd, Chandigarh
23	2410987077	MANISHA	Bebo Technical Education Services Pvt. Ltd, Chandigarh
24	2410987079	MEHAK GOEL	Bebo Technical Education Services Pvt. Ltd, Chandigarh
25	2410987080	MEHAK SHARMA	ChicMic Studios, Mohali

PUBLICATIONS

Sr.No	Name of Authors	Publication Title	Journal/Book Chapter
1	Jaiteg Singh Kamalpreet Singh Bhangu Farman Ali Ahmad Ali AlZubi Babar Shah	Quantum-Inspired Framework for Big Data Analytics: Evaluating the Impact of Movie Trailers and Its Financial Returns	Journal of Big Data
2	Yogesh Kumar Pertik Garg Rupinder Singh Chamkaur Singh	Optimized Deep Learning Techniques for Prediction and Prognosis of Severe and Moderate Knee Arthritis: A Comprehensive Analysis	Archives of Computational Methods in Engineering
3	Puninder Kaur Taruna Sharma Jaswinder Singh Neelam Dahiya	Introduction to Natural Hazards, Challenges, and Managing Strategies	Book Chapter
4	Shobhita Singh Divya Khanna B.S. Bhatia	ESMPS: An Efficient Stock Market Prediction System Based on Optimized and Ensemble Deep Learning Architecture	Neural Computing and Applications
5	Neelam Dahiya Sartajvir Singh Puninder Kaur	Challenges of GLOF Estimation and Prediction	Book Chapter
6	Amanpreet Singh Payal Kaushal	AI-Based Landslide Susceptibility Evaluation	Book Chapter
7	Rupinder Singh Manjinder Singh Jaswinder Singh	Artificial Intelligence Tools in Disaster Risk Reduction and Emergency Management	Book Chapter
8	Jaswinder Singh Rajwinder Kaur Puninder Kaur Rupinder Singh	AI-based Modelling of GLOF Process and its Impact	Book Chapter
9	Jaiteg Singh Parul Malik	Unveiling Hidden Emotions: A Review of Microexpression Recognition, Classification, and Datasets	Multimedia Tools and Applications

PUBLICATIONS

Sr.No	Name of Authors	Publication Title	Journal/Book Chapter
10	Shikha Sharma Nitin Goyal Ruchi Mittal	Integrating Dermatological Research with Sustainable Urban Health Infrastructure: A Bibliometric Perspective	International journal of sustainable building technology and urban development
11	Nishu Bali Anshu Singla	GA based Heuristic approach to evaluate optimal hyperparameters of RNN-LSTM model for effective crop yield prediction	Journal of Soft Computing
12	Varun Malik Mudassir Khan Punam Bhojar Kimmi Gupta Mohammed Ashfaq Hussain Kavita Arora Barga Mohammed Mujahid	StegoSec-EHR: A blockchain Enabled IoT Framework for Secure	Journal of StegoSec-EHR: A blockchain-Enabled IoT Framework for Secure
13	M.K.Nallakaruppan Rajesh Kumar Dhanaraj Shubhi Shukla Saravanan Krishnamoorthi Rajesh Kumar Kaushal Mayank Kumar Goyal Shakila Basheer Mohammad Tabrez Quasim	A Federated Autoencoder Framework with Explainable AI for Intelligent 6G-IoT Infrastructure Optimization	IEEE Internet of Things
14	S. B. Goyal Varun Malik Anand Singh Rajawat Amna Ikram Mudassir Khan Bayan Alabdullah Abrar Almjally	Smart Intercropping System to Detect Leaf Disease using Hyperspectral Imaging and Hybrid Deep Learning for Precision Agriculture	Journal of Frontiers in Plant Science -Sustainable and Intelligent Phytoprotection
15	Neelam Dahiya Gurwinder Singh Vishakha Sood Er. Apoorva Sharma Sartajvir Singh	Global Navigation Satellite Systems (GNSS) and their Applications in Climate Monitoring and Modelling	Book chapter



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Editorial Section

We present the current issue of our newsletter and we hope to get due feedback from our readers which can help us in improving our next issues.

“Happy Reading”
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