COMPUTER SOCIETY OF INDIA

MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

ANNUAL REPORT
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Muffakham Jah College of Engineering and Technology, Mount Pleasant, Road No. 3, Banjara Hills,

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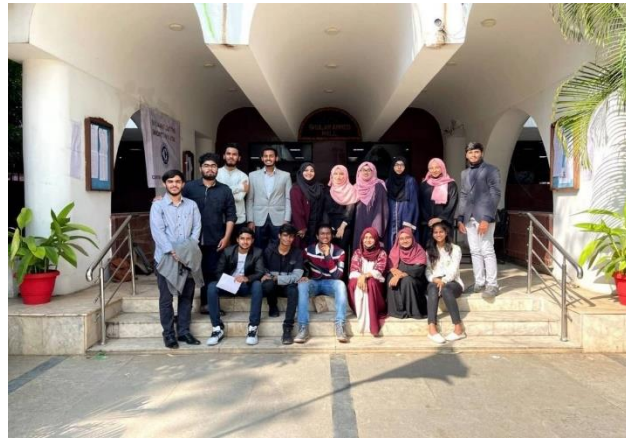
UNLOCKING YOUR FULL POTENTIAL

A seminar titled "Unlocking Your Full Potential", was organized by the CSE Department in collaboration with CSI-MJCET at Main Seminar Hall on 8th November 2021. In this seminar, Mr. Moid Ahmed, Partner at McKinsey & Company, addressed the gathering and elaborately guided the audience. This seminar was honored by the presence of Mr. Syed Basharat Ali from the CETI foundation and managed by Asst. Prof. Mr. Zainuddin Naveed sir and Prof. Mrs. Maniza Hijab.

Being an alumnus of MJCET, sir began his speech by reminiscing his time in this college and the journey he went through the years. Later, Mr. Moid spoke about leading a productive college life and the skillsets required to become

successful in the future. Students were encouraged not to underestimate themselves and find their true potential to achieve their goals. Lastly, the speaker concluded by giving a detailed lecture on how one can unlock their full potential and thrive in years to come.

Mr. Moid's speech ignited that spark in students to dream more, unlock their full potential, and achieve more. Later, the inspired students interacted one-on-one with the speaker in a Q&A session. The speaker himself was amazed by the response and queries of young minds, which assured the success of this seminar. Also, the guest lecture was preceded by a short motivational talk by Mr. Syed Basharat Ali of the CETI Foundation. Sir concurred with Mr. Moid's advice at the end and shared his two cents on the journey to unlock the full potential. Mr. Basharat then concluded by encouraging students to take mentorship programs and the vote of thanks was given by Areeba Mohiuddin, the chief coordinator of CSI-MJCET.

MJCET CONDUCTS INDUCTION PROGRAM – 2021: IN THE HOPE OF AN ADIEU TO THE PANDEMIC

Induction programs are conducted to familiarise the freshers regarding the functioning of the college and get the details of how the next four years will look like in a nutshell. After a pandemic-struck batch who didn't experience the program

in 2020, it's been a great feeling and time to start things afresh as a team and lead the students for their new beginnings. The approaches towards life have changed for sure; the same goes for college too. Along with the academic schedules to follow, students, especially freshers, are encouraged to start their side hustle or skill development to graduate as complete students with both practical and theoretical approaches.

The induction program started on 29th November 2021 and continued for a week as the new variant of Coronavirus began to show its signs across the globe. The college along with the faculty members and students ensured that basic protocols like wearing masks, using sanitizers, and maintaining social distancing, are followed. This program is usually a joint approach of the students and the faculty members in planning, laying out, and facilitating the transitioning of their school to college life. Other aspects of this program were encouraging students to have a positive outlook on life and work hard to achieve their goals and many renowned speakers came into the limelight to share their success as well as failure stories.

CSI MJCET had another wonderful Induction session in which they introduced themselves to around 800 students speaking about their society and how CSI works as a team. Many aspects including the team members' journey, events conducted in previous years, projects, CSI Bulletin, and the overall perks of CSI were highlighted in this session. While Areeba and Mehvash presented the introduction of CSI's mission and vision, projects were handled by Razeena and Arafath. Various activities and events were presented by Rashaad and Zubair while the Editorial and experience as a student in CSI were shared by Saad.

Overall, stepping into college life is always a new and exciting journey in itself. By the end of the Induction Program, the freshers are encouraged to be fit, intelligent both in the academic area and the extracurricular activities to turn out to be overall achievers.

DATA INSIGHTS – EXPLORATORY DATA ANALYSIS

Computer Society of India MJCET held its first workshop for the academic year 2021-22 on Saturday, December 4, at the Microsoft Lab, MJCET. Scheduled at 10:30, the six-hour workshop, titled Part I – Exploratory Data Analysis, was the first segment of CSI-MJCET's three-part series called Data Insights. The workshop was led by Mr. Syed Kareem Ullah Hussaini, a Data Engineer at Deloitte.

The workshop proved to be an insightful one for the 60+ attendees, and offered them an opportunity to have a gateway into Data Science. Fast-paced and direct, this workshop was designed to be an ideal companion for data science beginners, providing an engaging step-by-step approach to understanding Data Science.

Chief Coordinators Areeba Mohiuddin and Fatima Mehvash welcomed the guests and expressed their gratitude to the guest speaker for gracing the seminar.

This was followed by a keynote address by the speaker, Mr. Kareem Ullah. He went on to unravel Data Science for the curious audience and grasped onto their attention with his interesting and informative presentation. Moreover, he also interacted with the students and answered a range of questions.

Later, the audience engaged in a hands-on session with the guest speaker, which helped them get equipped with relevant skills, like a data scientist, learning along the way from real examples that lead to real results. A solid foundation for the years ahead, it helped them to learn everything they needed to know to get started in the field of Data Science.

A competition was also organized for the young audience. They participated with enthusiasm and raced against the clock to produce the best insights for given data sets. The winners of this competition were handed prizes by the guest speaker.

The guest speaker, Mr. Syed Kareem Ullah Hussaini, was felicitated by the Associate Head of CSE Dept, Dr. Syed Shabbeer Ahmed, and a memento was presented to him. The workshop concluded with a vote of thanks by Rashaad Mirza.

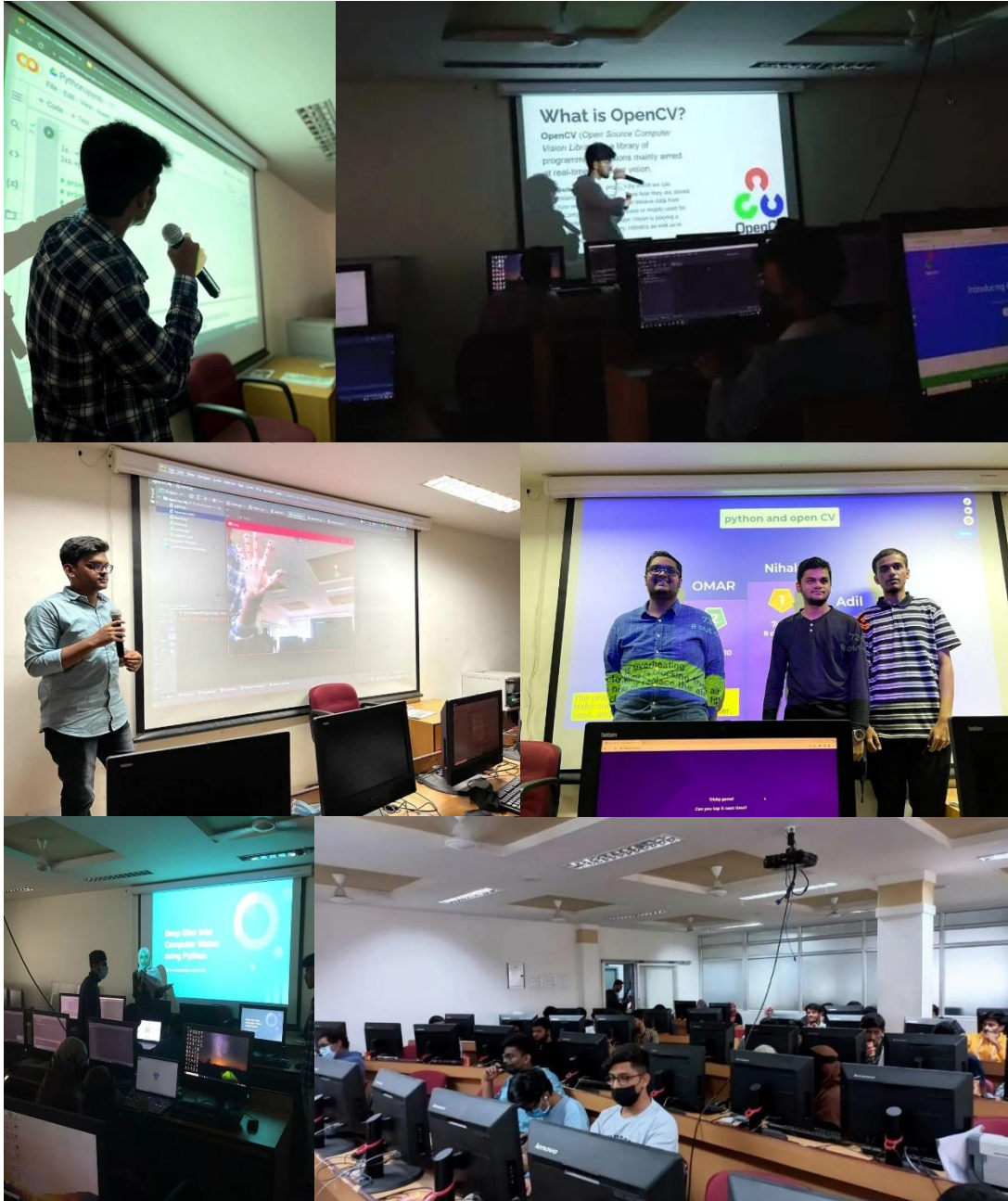# WEB-DEV WORKSHOP 2021: A HANDS-ON EXPERIENCE FOR BEGINNERS

For a novice in the realm of development, web development can be the perfect stepping-stone. Learning web development involves mastering a variety of skills, tools and technologies, which can be overwhelming for a beginner. With the aim of familiarizing students through a hands-on experience with the foundations of front-end web development, CSI organized the Web-Dev: No Way Home workshop on the 18th of December, 2021. It was led by the Tech and Web Teams of CSI, who were present to guide students along every step of the way. Open to all irrespective of year and branch, the event was attended by over 70 students.

The event kicked off at 11 AM, with Ammarah and Zubair of CSI giving the students an introduction to the basics of front-end development: HTML, CSS and JavaScript. The group gathered again after lunch at around 2 PM for the second half of the programme during which, a brief introduction to JavaScript continued. To help the students have a more immersive and practical learning experience, a fun

contest was held to see which student would design the best page using all the information they had just learnt. Helping the students navigate this challenge by checking code and answering their queries were CSI members Naheed, Habeebullah, Mehvash, Areeba and several other volunteers.

The webpage contest came to an end at around 3 30 PM and after carefully judging and observing the students' pages, the Tech and Web teams decided upon a winner and two runners-up. To award the best pages and to encourage the spirit of learning, cash prizes were given to the winners Farhan Shakeel, Aamer Aijaz Ahmed and Isra Sayeeda. The event concluded with the organizers thanking the students for their enthusiastic participation and for spending their day learning and taking on new challenges.

DEEP DIVE INTO COMPUTER VISION

With the Hack Revolution just a few days away CSI-MJCET in collaboration with E-Cell MJCET organized **Deep Dive into Computer Vision** using Python and OpenCV to build one of many other skills that could help the participants in the hackathon. It focused on the concept of Computer Vision, a field of AI that gives a

machine the ability to derive information and interpret visual data such as videos, images and other visual inputs.

The event commenced at 10:00 AM on 2 January, 2022. In the morning session of this full-day event, the speakers Basith, Muzzammil, and Habeebullah Tabrez introduced the Python language and laid the groundwork for the hands-on project. After a short break for refreshments the afternoon section started with the know-how of OpenCV- an open-source Python library. By creating small projects to fully understand the use of OpenCV and using that knowledge in the final hands-on project-a real time face and hand detection application, the afternoon section was filled with a lot of information, but just enough for the students to participate in the Hack Revolution.

Filled with a lot of anticipation among the participants for the upcoming hackathon, the event drew to a close with a quiz to help the participants recollect the topics discussed. With the winners of the quiz receiving cash prizes, the day ended at around 4 in the evening with the organizers thanking the participants for their energetic participation and with a sense of achievement among both the organizers and participants alike.

PREP TO HACK

An event titled "Prep To Hack" was organized by CSI-MJCET in collaboration with E-Cell MJCET on January 5, 2022, to prepare novices for the realm of competitive Hackathons. The maestro Mr. Affan Syed, winner of Hyderabad City Police Hackathon-2020, shared his hands-on ground experience and incited the audience with his striking motivation. Along with the ground report, it was also central for the participants to know the book moves from the masters. So, preceding the event Mr. Rizwan, a jury member of 'SIH-20', addressed the enthusiasts with a handful of tips and briefly explained the environment of high-level hackathons. Both speakers helped the future techies gain the right mindset, as well as pointers on planning and time management for the upcoming hackathon. With this full house event, CSI-MJCET has managed to produce a few humdingers for future hackathons.

HACK REVOLUTION 2021

Under the aegis of Muffakham Jah College of Engineering and Technology (MJCET), CSI-MJCET in collaboration with E-Cell organized a 15-hour hackathon named "Hack Revolution 2022", on Saturday, 8th January 2022 in the Ghulam Ahmed Hall from 7 AM to 10 PM.

The Hack Revolution 2022, sponsored by XIT Solutions and Launchweb respectively, with the Internship Partners being EdVenture Park and The Hacking School, was a weekend dedicated to developers and programmers to collaborate and build creative solutions while pushing the limits of their minds into creating mind-blowing innovations. COVID-19 prevention protocols were strictly followed and teams were restricted to a maximum of four members.

After so many days of virtual learning and online hackathons, the notion of a physical and conventional hackathon being organized was a refreshing experience for few and a sigh of relief for others. Keeping in mind the ongoing pandemic, to conduct a hackathon in a traditional yet safe way was a challenge for the organizers who were determined to provide an opportunity for the participants to learn and grow with their experience from the event.

On Saturday, 42 teams consisting of coders, dreamers, and engineers from various colleges across the city showed up at the Ghulam Ahmed to participate in the Hack Revolution 2022, a one-day offline hackathon organized at MJCET. Filled with anticipation, the event kicked off at daybreak as the first team arrived at the venue. The volunteers at the scene set about their tasks for the day recording the registration details of the teams, guiding them into the venue, helping the teams with any technical problems they would face, and responding to their queries and requests. As the teams started building their projects and preparing for the first evaluation round, the venue was filled with the participants' enthusiasm. With the arrival of the jury comprising of academicians and industry experts including Mr. Md Riyazuddin, Assistant Professor - MJCET, Mr. Syed Mohd Akber Hashmi, Assistant Professor - MJCET, Mr. Syed Nisar Ul Haq, Software Engineer - 3 Microsoft, Mr. Mohammed Imran Khan, Senior Consultant – Deloitte, and Mr. Syed

Zohaib, Software Engineer III - FactSet. Everybody looked forward to the first round of judgment, which went through until noon.

It was a nail-biting afternoon at Ghulam Ahmed Hall particularly for the teams, as the jury started the inspection for Round 2. All the team leaders were ready with their presentations. Although, facing the maestro jury was a tough job for the techies. The experts were not only doing their responsibility as jury, but as mentors, they were guiding neophytes with their pivotal improvisations in the projects. It was a close battle. However, only a few could make to the next round.

It was 1:00 PM on the clock, and it was time for lunch. It was tough for the teams to manage time in a 15-hour rat race. Everyone made out from the hall collecting their meals. It was probably the most apprehensive lunch they ever had; they were more into the race than the rice. The press too had cracked up at lunch and interviewed the organizers. Everyone had their quick meals. After lunch, the time slot spaced was for prayers. Most teams had split their jobs to make every member offer the prayer while being productive. Everyone was getting back on track. Meanwhile, results on Round 2 were out. Only 14 teams made it to Round 3, it was an exit door for many. But more importantly, it was time to prepare for the showdown. Most of them started implementing the improvisations that the jury asked for. It was almost 4:30 PM on the clock; time to add the cherry to the cake. And, it was high time to prepare the project presentation for the final round. Techies were in grind since the morning tea. It was time for team leaders to put on some extra work and hit the star for the team 4 as the presentation was the last piece to their puzzle before the jury proceeded for Round 3 of evaluation in the evening.

A quiz was conducted in the evening in a competitive environment which consisted of 60 technical questions with members from all teams participating. As Round 3 of evaluations came to a close, the sponsors of the event delivered their motivational talks and shared their professional experiences with the keen audience. A few participants too were were called to share their experience of the day. Dr. Syed Ferhatullah Hussainy, Dead (Administration) addressed the gathering and followed up with an outline of the Hack Revolution over the years. He expressed his delight over the success of the Hackathon and praised the event

coordinator Prof. Zainuddin Naveed, and the student bodies CSI and E-Cell for handling the event gracefully.

The results of the hackathon were announced at 10 PM. The winners were handed cash prizes worth ₹ 20,000, certificates, and were offered with internships. The first prize of ₹ 10,000 was bagged by Team Metaverse from MJCET. The second prize of ₹ 6,000 was won by Team Chronicle Coders from Vasavi College of Engineering. The third prize of ₹ 4,000 was taken by Team Brocode from MJCET. The consolation prizes were given to two teams MAFE and Red Coders from MJCET.

The event concluded with the release of seventh edition of the prestigious CSI Bulletin by CSI-MJCET at the sidelines of Hack Revolution 2022. This edition of the bulletin was released by Dr. Ferhathullah Hussainy and the panel of five judges for the Hack Revolution 2022.

MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY (MJCET) HAS ORGANIZED A 15 HOUR HACKATHON NAMED HACK REVOLUTION

The MJ-Hack Revolution (hackathon) was a weekend dedicated to developers and programmers to collaborate and build creative solutions while pushing the limits of their mind into creating mind-blowing innovations. Following covid protocol teams were restricted to 45. Students from the most distinguished colleges participated in the event from all across the city including MJCET, CBIT, MGIT, Vasavi, Lords etc. The event was a 15-hour long Coding Marathon. The hackathon was organized by the Computer Science & Engineering Department under the aegis of Computer Society of India (CSI) in collaboration with Entrepreneurship Cell (E-cell) MJCET. The prizes and logistics were sponsored by XIT Solutions and Launchweb respectively, with the internship sponsors being EdVenture Park and The Hacking School.

Professional mentorship was provided by seasoned experts practicing in the industry which served as a great tool of guidance to our participants. Reviews were conducted at regular intervals wherein the project ideas pitched by each of the teams were assessed by the judging panel comprising of academicians and industry experts including Mohd Rizaruddin Assistant Professor at MJCET, Syed Mohd Akber Hashmi Assistant Professor MJCET, Syed Kisar Ul Haq, software Engineer, Microsoft, Mohammed Imran Khan – Senior Consultant, Deloitte and Syed Zohaib Senior Engineer III, FactSet. Winners were given cash prizes of Rs 2000 and internships. Mr. Zafar Javeed, Hon. Secretary, Sultan Ul Uloom Education Society and Dr. Basheer Ahmed, Advisor-cum-Director, MJCET, expressed their pleasure over the successful conduct of the Hackathon and congratulated the winners Dr. Syed Ferhatullah Hussainy (Dean Administration), Dr. A. A. Moiz Qyser (Head-CSE) Dr. Syed Shabbeer Ahmad (Associate Head-CSE), Mr. Md. Zainuddin Naveed (CSI Mentor), Mr. P Hayath Basha (Network Admin), student in-charges Ms. Fatima Mehvash, Ms. Areeba Mohiuddin, Mr. Sufwan Aslam Dasband, Mr. Mohammed Azharuddin and other students of CSI and E-cell coordinated the event.

A VISIT TO SAFDARIA GIRLS HIGH SCHOOL

A delegation comprising of members from the CSI – MJCET paid a humble visit to the Safdaria Girls High School on Friday, 25 March 2022. The visit was intended to counsel young and ambitious students at the school, and advise them on the importance of education in building a good career.

A diverse range of topics were addressed to the students where the members spoke about the opportunities for women in science, technology, engineering and mathematics (STEM). The students were made to discern what Computer Science Engineering was, and were also explained about other engineering disciplines.

In a session that lasted for more than an hour, the members explained to the students about the pathways to building a successful career, and showed them what waits ahead after completing high school. The students were told about ways of staying motivated and how setting achievable goals would help them to build a bright future. The students keenly listened to the speakers and vowed to realize the importance of education in leading a good life. The members interacted with the students and took their questions. The day ended with a lively quiz session.

INTO THE WEB3.0

CSI-MJCET conducted a workshop Into the Web3.0 on Friday evening, 13th May 2022 that offered a comprehensive idea of Web3.0 with career guidance and opportunities.

The workshop showed a visual breakdown of the concepts behind Web3.0 and the history of the internet. The speakers Habeeb, Masrath, and Mustafa ensured that the audience got a grip on Web3.0 and understood its prospects.

The event concluded with the speakers taking questions from the audience. The organizing team was applauded by the faculty-in-charge Prof. Zainuddin Naveed for conducting the event successfully.

MASTERS IN US – THE COMPLETE GUIDE

CSI-MJCET held an insightful session on Friday, June 10, with Abdul Malik, co-founder of OU Notes.

The speaker stressed upon the importance of studying for a Master's degree and how it was an exciting prospect to consider taking a postgraduate course. He explained how it helps accelerate a person's career through deepened subject knowledge and improved personal and professional skills.

The seminar turned out to be a perspicacious one and helped the students get familiarized with the complete Master's degree affair, the process of getting enrolled in prestigious universities of USA, and got to know about scholarships, tests and other important particulars. The event concluded with a vote of thanks by Rashaad Mirza.

CSI ANNUAL DAY 2022

The Annual Day of CSI-MJCET for the academic year 2021-22 was celebrated on 30 July 2022 in the Ghulam Ahmed Hall, MJCET. Faculty-in-charge Prof. Zainuddin Naveed welcomed the guests and presented a brief report about the student chapter's performance. Dr. Syed Ferhathullah Hussainy, Dean (Administration and Student Affairs) consented to be the Chief Guest and addressed the gathering. Dr. Hussainy also felicitated the Chief Coordinators and presented them with mementos.

CSED faculty members Dr. Syed Shabbeer Ahmed, Dr. Fahmina Taranum, Dr. Maniza Hijab, Prof. Afreen Sultana, Dr. K. Sridevi, and Prof. Akbar Hashmi congratulated the governing body members and presented them with mementos. The faculty members also presented certificates of appreciation to the students associated with CSI-MJCET and spoke about the essential role played by student chapters in academics.

Prof. Zainuddin Naveed concluded the program by delivering his vote of thanks and hosted the guests for lunch.

RASHAAD MIRZA

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AUGUST 2022