(Autonomous College Affiliated to University of Mumbai)

ANNUAL REPORT

Computer Society of India-KJSCE Students' Chapter

2018-2019

Name of the organization/ chapter/ project: CSI - KJSCE

List of Members/ Details of Committee: 2018 - 2019

Sr. No.	Name of the Faculty advisor/ in-charge	Department	Portfolio
1.	Dr. Manish Potey	COMPS	Student Branch Counsellor
2.	Prof. Shweta Dhawan Chachra	COMPS	Faculty Advisor
3.	Prof. Suchitra Patil	IT	Faculty Advisor

Sr. No.	Name of Student	Current Year of Study and	Portfolio		
		Department			
1.	Hitansh Shah	TY IT	General Secretary		
2.	Bhavini Mamtora	TY COMPS	Jt. General Secretary		
3.	Aliasgar Haji	TY IT	Secretary		
4.	Shreya Varma	TY COMPS	Financial Secretary		
5.	Darshan Chheda	SY COMPS	Jt. Financial Secretary		
6.	Shamilee Peruvaludhi	TY COMPS	Coordinator		
7.	Hitanshu Shah	TY IT	Technical Head		
8	Kunj Haria	TY COMPS	Jt. Technical Head		
9.	Tanish Sehgal	TY COMPS	Jt. Technical Head		
10.	Aditya Panchal	SY IT	Technical Team		
11.	Nikhil Bhardwaj	SY COMPS	Technical Team		
12.	Zenil Haria	SY COMPS	Technical Team		
13.	Ruchi Bhatia	TY COMPS	Public Relation Officer		
14.	Ankita Patil	SY IT	Public Relation Team		
15.	Priyanka Kale	SY COMPS	Public Relation Team		
16.	Shivali Joshi	SY IT	Public Relation Team		
17.	Jash Gopani	TY IT	Creative Head		
18.	Nikita Sangal	SY IT	Creative Team		
19.	Varada Harikumar	SY EXTC	Creative Team		
20.	Kaustubh Damania	SY COMPS	Event Team		
21.	Preeti Podar	SY EXTC	Event Team		
22.	Smit Vora	SY COMPS	Event Team		
23.	Talha Chafekar	FY COMPS	FE Representative		
24.	Aafiya Hussain	FY COMPS	FE Representative		
25.	Saurav Joshi	FY COMPS	FE Representative		
26.	Parth Shah	FY COMPS	FE Representative		
27.	Kevin Shah	FE Representative			
28.	Jainam Shah	FY COMPS	FE Representative		

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29.	Ayush Khade	FY COMPS	FE Representative
30.	Aman Desai	FY COMPS	FE Representative
31.	Virag Jain	FY IT	FE Representative
32.	Yashvi Vora	FY IT	FE Representative

Photo of members/committee – 2018-2019



Details of events/activities held during academic year 2018-2019

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
1.	31 st	2018	July	12:30 P.M. to 1:15 P.M.	Seminar Hall B507	Handover Ceremony
2.	13 th	2018	August	5:15 P.M. to 7:30 P.M.	Seminar Hall B113	Seminar - Tech Routes
3.	20 th	2018	August	5:15 P.M. to 7:30 P.M.	B309, B314	Workshop on Introduction to Python for Machine Learning
4.	21 st	2018	August	5:15 P.M. to 7:30 P.M.	B309, B314	Workshop on Advanced Machine Learning
5.	10 th	2018	September	5:15 P.M. to 7:30 P.M.	Seminar Hall B507	Seminar on Machine Learning
6.	11 th	2018	September	5:15 P.M. to 7:30 P.M.	B building 2 nd and 3 rd floor labs	Workshop on Machine Learning
7.	28 th	2018	September	5:15 P.M. to 7:30 P.M.	B309, B310, B313 and B314	Workshop on Cryptography
8.	6 th	2017	October	9:00 A.M. to 7:30 P.M.	B213, B214, B215, B216, B217 and Drawing Room ('A' Building)	Abhiyantriki events
9.	2 nd	2018	November	5:15 P.M. to 7:30 P.M.	B309, B314	Workshop on Game Development Using Python
10.	2 nd and 3 rd	2019	February	10:00 A.M. on 2 nd February to 5:00 P.M. on 3 rd February	Seminar Halls B113, B507 and B517	HackIt (TechNext 2019)
11.	18 th	2019	March	5:45 P.M. to 7:30 P.M.	B309 and B313	Workshop on Web Development using Flask
12.	5 th and 6 th	2019	April	10:00 P.M. on 5 th April to 10:00 P.M. on 6 th April	-	CodeWars 3.0
	13 th and 14 th			10:00 P.M. on 13 th April to 10:00 P.M. on 14 th April		

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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
1.	31st	2018	July	12:30 P.M. to	Seminar Hall	Handover Ceremony
				1:15 P.M.	B507	

Report of event/ activity

Event: Handover Ceremony

<u>Host:</u> Jt. General Secretary Bhavini Mamtora

Description:

- The ceremony began with a warm introductory note by the host, Jt. Gen. Secretary Bhavini Mamtora, followed by the Somaiya prayer, sung by the council members- Shamilee Peruvaludhi, Shivali Joshi, Priyanka Kale and Preeti Poddar.
- This was followed by a speech and a short presentation by the former Gen. Secretary Meet Paradia, emphasizing on the success that the previous council achieved through its various events and accomplishments.
- ➤ Next, the former council members were felicitated by the esteemed faculty members with certificates and LOAs.
- ➤ The former Gen. Secretary Meet Paradia officially handed over the Gen. Secretary position to the current Gen. Secretary Hitansh Shah.
- Also, the handovers of the other positions- the Technical Head, the Secretary and the Financial Secretary- were done from the previous council members to the current council members.
- Next, the current Gen. Secretary Hitansh Shah introduced the new council members through a speech and a short presentation, highlighting the goals and objectives of the new council with an overview of the various upcoming events of the council. He also thanked all the previous council members for their immense hard work and dedication in bringing about a great year and how the current council would work towards achieving the same this year.
- ➤ The ceremony ended with a vote of thanks by the host and photographs were taken by the new and the old council members with the Student Branch Counsellor and the other esteemed faculty members.

Sample Photographs of the Event/Activity







Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
2.	13 th	2018	August	5:15 P.M. to 7:30 P.M.	Seminar Hall B113	Seminar - Tech Routes

Report of event/ activity

Event: Seminar - Tech Routes

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Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						166
TY						166
LY						

Host: PRO Ruchi Bhatia

Speakers:

Technical Head Hitanshu Shah, General Secretary Hitansh Shah and Financial Secretary Shreya Varma Guest Speakers: Previous CSI council members- Ex-Technical Head Sarfaraz Iraque and Ex-PRO Aromal Nair

Description:

- The seminar commenced with the presentation of a short video, which was followed by an introductory note by the host, PRO Ruchi Bhatia. She gave the attendees a gist of what to expect from the seminar and the various topics that the speakers would be covering throughout.
- ➤ Before moving on to the main presentation, the guest speakers, Sarfaraz Iraque and Aromal Nair, were invited to speak about their own experiences as engineering students. They enlightened the audience with their inspiring personal stories of how they spent their three years in engineering and how they coped up with peer pressure and academics to ultimately achieve success.
- The main presentation began with the three speakers- Technical Head Hitanshu Shah, General Secretary Hitansh Shah and Financial Secretary Shreya Varma, each speaking on three different fields of engineering: Machine Learning/ Artificial Intelligence, Software Development and Web Development respectively. The following were the points covered by them with respect to each topic:
 - What is the field about? What all does it consist of?
 - What are the job profiles and the corresponding salaries associated with the field?
 - How to go about learning the field i.e., what and when to learn in order to master that field?
- The speakers also talked about the below mentioned points to a certain detail:

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- Ways to build up an online resume
- Certifications and competitions
- Entrance exams like GRE and GATE
- Internships and Placements
- As the presentation ended, the audience had various queries related to the content of the seminar and the speakers made sure to clarify all their doubts. Lastly, the Financial Secretary Shreya Varma made a quick announcement regarding how to go about registering for a CSI membership through the college website.
- This marked the end of the seminar. The host, PRO Ruchi Bhatia thanked the attendees for their huge response and hoped to see them in the upcoming seminars and workshops.













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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
3.	20 th	2018	August	5:15 P.M. to	B309,	Workshop on Introduction to
				7:30 P.M.	B314	Python for Machine Learning

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants		
FY								
SY						25		
TY						25		
LY						-		

Report of event/ activity

Event: Workshop on Introduction to Python for Machine Learning

Speakers:

Lab No.	Speakers
B309	PRO Ruchi Bhatia and Kaustubh Damania (Event Team)
B314	Tech Head Hitanshu Shah and Jt. Gen Secretary Bhavini Mamtora

Description:

- ➤ This workshop was conducted for SEs and TEs, aiming at introducing students to the conceptual basics of Python required for Machine Learning and the various libraries like NumPy, Pandas and Matplotlib which are used in Data Analysis.
- > Jupyter Notebook was used to share the content of the workshop with the students.
- The speakers covered the following topics:
 - Lists in Python and the various operations that can be performed on them- appending of elements at the end, slicing of data stored in the lists, iterating through the lists, etc.
 - Strings in Python.
 - Dictionaries in Python which are used to hold data together as items with their values and the corresponding keys.
 - The NumPy library and creation of arrays using NumPy.
 - Various operations performed on NumPy arrays (both single- and multi-dimensional) and

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the significance of using NumPy arrays over ordinary lists.

- Splicing of data in NumPy arrays.
- The Pandas library and creation of series using Pandas and performing of various operations on them.
- The Data Frame data structure in Pandas and implementation of operations on them.
- Introduction to Matplotlib and creation of various charts like line graphs, scatter plots, bar charts, etc. using the same.
- Using the FIFA data set to implement different graphs for different scenarios.
- At the end, the students submitted feedback about the workshop. From the feedback received, majority of the students found the workshop to be very useful. The content of the workshop was especially appreciated.

Sample Photographs of the Event/Activity



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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
4.	21st	2018	August	5:15 P.M. to	B309,	Workshop on Advanced Machine
				7:30 P.M.	B314	Learning

Report of event/ activity

Event: Workshop on Advanced Machine Learning

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Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						22
TY						23
LY						

Speakers:

Lab No.	Speakers
B309	Gen. Secretary Hitansh Shah and Jt. Tech. Head Tanish Sehgal
B314	Tech. Head Hitanshu Shah and Secretary Aliasgar Haji

Description:

- This workshop was conducted for SEs and TEs and was in continuation to the 'Introduction to Python for Machine Learning' workshop which was conducted on Monday, 20th August 2018.
- ➤ While the previous workshop aimed at introducing the students to the basics of Python and libraries like NumPy and Pandas, this workshop was aimed at putting those concepts to practice with Advanced Machine Learning.
- The following was covered by the speakers in the workshop:
 - A brief introduction to Machine Learning, its types and the basic procedure to follow when solving an ML problem.
 - The concept of regression (covered in great detail with the help of a sample problem):
 - a. Splicing the data of the given data set, visualizing the data set by plotting it, further separation of the data set into the training data and the test data.
 - b. Fitting the required model from Scikit with the training data.
 - c. The concepts of polynomial features, underfitting and overfitting of data and the learning curve.
 - d. The concept of regularization.
 - Furthermore, students were given another data set (the FIFA data set) and asked to implement the above concepts of linear regression on them.

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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
5.	10 th	2018	September	5:15 P.M. to	Seminar Hall	Seminar on Machine
				7:30 P.M.	B507	Learning

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants	
FY							
SY						140	
TY						140	
LY							

Report of event/ activity

Event: Seminar on Machine Learning

Speakers:

Gen. Secretary Hitansh Shah, Tech. Head Hitanshu Shah and Jt. Tech. Head Tanish Sehgal

Description:

- This seminar was conducted only for the FEs so as to introduce them to notion of Machine Learning and its implementation in the field of Artificial Intelligence.
- It began with the speakers giving a brief introduction about Artificial Intelligence. Several reallife examples showcasing the implementation of AI were given: AlphaGo, IBM Watson and OpenAI to name a few.
- ➤ This was followed by introduction to the concept of Machine Learning. The speakers covered the following topics under Machine Learning:
 - A brief introduction to Machine Learning.
 - The three ML models viz. Supervised Learning, Unsupervised Learning and Reinforcement Learning.
 - Under Supervised Learning, the concept of Classification using the K-Nearest Neighbours approach. Also, the concept of Regression was explained.
 - Neural Networks: A basic idea about what are neural networks and several simpler

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examples were used to explain the concept. Also, an application of Neural Networks, Giorgi Cam was explained and demonstrated as well.

- The basic idea of unsupervised learning and real-life examples that implement it.
- Reinforcement learning and Recommender systems: The concept and again, examples to help explain the concept better.
- Lastly, a comparison of the three ML models was made and this concluded the seminar. The attendees also asked their doubts regarding the content of the seminar and the speakers made sure to clarify them.
- The attendees were asked to give their feedback about the seminar. As per the responses collected from them, it was observed that, while a majority of them found the seminar to be useful and interesting, some of the attendees suggested that we use more practical examples while explaining the concepts





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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
6.	11 th	2018	September	5:15 P.M. to 7:30 P.M.	B building 2 nd and 3 rd floor	Workshop on Machine Learning
					labs	_

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						115
TY						115
LY						

Report of event/ activity

Event: Workshop on Machine Learning

Speakers:

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Lab No.	Speakers
B309	PRO Ruchi Bhatia and Aditya Panchal (Technical Team)
B314	Tech. Head Hitanshu Shah and Coordinator Shamilee Peruvaludhi
B315	Jt. Tech. Head Tanish Sehgal and Preeti Podar (Event Team)
B316	Jt. Tech. Head Kunj Haria and Varada Harikumar (Creative Team)
B215	Secretary Aliasgar Haji and Nikhil Bhardwaj (Technical Team)
B217	Financial Secretary Shreya Varma and Zenil Haria (Technical Team)

Description:

- This workshop was conducted only for FEs and was a follow-up to the seminar conducted on 'Machine Learning' on Monday, the 10th of September 2018. This workshop served as a practical approach for the students to implement the various ML models that they learnt about in the seminar.
- ➤ The speakers covered the following topics (About 2-3 real-life problems were taken up by the speakers, also the theory behind the model being used for that particular problem was explained in great detail as well):
 - A brief recap of the concept of Machine Learning and its three basic models- Supervised Learning, Unsupervised Learning and Reinforcement Learning.
 - Under Supervised Learning, the concept of Classification and using the K-Nearest Neighbors approach to solve a real-life example of creating an AI to distinguish apples and oranges.
 - The concept of Regression which is also under supervised learning and using the Linear Regression approach to solve another real-life example of calculating the number of calories burnt by a person based on the speed, distance and number of steps taken by them.
 - The approach used to solve any ML problem- importing of the dataset, splicing of the dataset into features and labels, plotting graphs for the same, splitting of the dataset into training and test sets, selecting of an appropriate model and allowing it to learn using the training set and finally letting the model predict the results for the test set.
 - Apart from the above, the concept behind the algorithms being used to solve the problems were also explained.

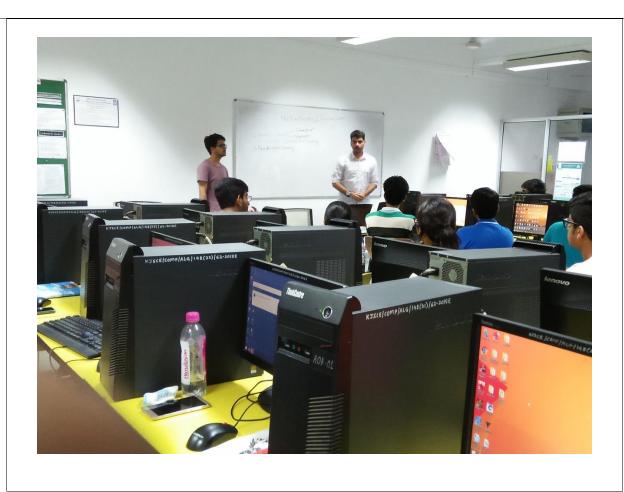
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At the end, the students submitted feedback about the workshop. From the feedback received, majority of the students found the workshop to be useful. The content and the speakers were equally appreciated.









Sr. No. of	Day/	Year	Month	Time	Venue	Description of Activity
Event /	Date					
Activity						
7.	28 th	2018	September	5:15 P.M. to	B309, B310,	Workshop on Cryptography
			_	7:30 P.M.	B313 and	
					B314	

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						0.1
TY						81
LY						

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Report of event/ activity

Event: Workshop on Cryptography

Speakers:

Lab No.	Speakers
B309	Jt. Tech. Head Kunj Haria and Jt. Financial Secretary Darshan Chheda
B310	Jt. Tech. Head Tanish Sehgal and Preeti Podar (Event Team)
B313	Tech. Head Hitanshu Shah and Shivali Joshi (PR Team)
B215	Creative Head Jash Gopani and Aditya Panchal (Technical Team)

Description:

- This workshop was conducted for both FEs and SEs. The main aim of the workshop was to provide the attendees with an overview of the concept of cybersecurity and how cryptography proves to be a useful technique in reinforcing security during information transfer.
- The speakers covered the following topics:
 - The idea of cybersecurity and why it has become an important matter of study in the present world.
 - The different types of cybersecurity threats such as malware (viruses, computer worms, ransomware), social engineering (phishing), etc.
 - The concept of a computer virus and a couple of practical implementations of the same were also conducted wherein the students created different kinds of viruses themselves.
 - Introduction to cryptography, the concepts of encryption and decryption and the different types of encryption-decryption techniques. Also, the concept of keys- public key and private key.
 - The idea of a cipher and its different kinds- Caesar cipher and Rail fence cipher and the entire technique of encrypting and decrypting data using these ciphers.
 - Introduction to the OpenSSL library, the concept of a Certification Authority (CA) and how it issues authentication certificates. Moreover, the students were taught to create their

own keys and certificates using OpenSSL.

Sample Photographs of the Event/Activity



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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
8.	6 th	2017	October	9:00 A.M.	B213, B214, B215, B216,	Abhiyantriki
				to 7:30 P.M.	B217 and Drawing Room	events
					('A' Building)	

Report of event/ activity

Event: Abhiyantriki events

EVENT 1: CODE IN X

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants	
FY							
SY						71 40 000 0	
TY						71 teams	
LY							

Description:

This event comprised of the following three rounds:

• Round 1:

The participants were provided with the syntax sheets for the unknown language 'X' to allow them to understand how to write basic programs using that language. Also, a couple of sample problem statements were given to them to solve using the language 'X' for better understanding of the language. Later, the actual problem statements of the competition were provided to them, one of which had to be solved in Round 3.

Round 2:

This was the auction round wherein participants had to bid for various 'Code Packs' which consisted of if-else statements, for/while loops and functions, each pack priced at a certain base value. Participants were given a total amount of 20000 coinbits per team and asked to bid for their desired code packs and the highest bid was given an instance of the same. Further, participants willing to pay more than the highest bid were also given the instances of the same pack. Three sub-rounds were conducted during this round.

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• Round 3:

This was the third and final round wherein participants had to actually implement the previously given problem statements using their purchased code packs. Also, additional individual components like an extra if-else statement or a for loop were also provided to teams specific to their requirements but at a particular price.

After the conclusion of Round 3, after all the teams had submitted their solutions, the council members evaluated the submissions taking into consideration the code packs used, additional components used, accuracy and the level of optimization of the solutions and points were awarded correspondingly. Later, the winners of the competition were declared and felicitated.

Details of winners and their respective prizes

Sr. No.	Name of the student	Department	Details of prize won	Remarks
1.	Prajwal Kotian and Raj	IT	-	Winner
	Shah			
2.	Divya Khetan and Prafful	COMPS	-	1st Runner-
	Javare			Up
3.	Mayank Kakad and	COMPS	-	2 nd Runner-
	Aakash Chavan			Up

Sample Photographs of the Event/Activity





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EVENT 2: CODE CRUX

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						20 taams
TY						20 teams
LY						

Description:

- This event comprised of the following three rounds:
 - Round 1: Blank Screen Coding:

Each team was randomly allotted two problem statements, each to be solved in two different languages. While one of the team members solved one of the problems in one language, the other had to solve the other problem in a different language.

Each participant was given 15 minutes to solve their respective problems with the monitors of the PCs turned off. At the end of 15 minutes, team members had to swap their places and solve each other's problems in the next 15 minutes. However, immediately after swapping, participants were given some time to see and correct their partner's solution after which the monitors were again turned off for the next slot of 15 minutes.

At the end of 30 minutes each participant submitted their respective solutions. The council members evaluated all the submissions of the teams, taking into consideration the accuracy and level of optimization of each solution and accordingly points were awarded for the same.

Round 2: Technical Treasure Hunt:

Each team were given five programs one after the other. Each program consisted of a list of clues that again, had to be solved one after the other. The clues on being cracked resulted in a solution that the teams had to guess. Only on cracking of all the clues of the first program was the team allowed to proceed with the next program. Whoever finished up all the five programs the fastest was to be declared the winner of this round.

• Round 3: Surprise Round:

The details of the event were declared on the spot to all the teams. In this round, each team member had to choose a problem statement that had to be solved by their partner as well as

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another participant belonging to a different team altogether. Problems had to be chosen such that they could be solved easily by the respective partner of the participant but not by the member of the other team.

At the end, each participant submitted their respective solutions. The council members evaluated all the submissions of the teams, taking into consideration the accuracy and level of optimization of each solution and accordingly points were awarded for the same.

> By taking into consideration the points scored by each team in each of the three rounds of the competition, the cumulative score of each team was calculated and the highest scorers were declared the winners and felicitated.

Details of winners and their respective prizes

Sr. No.	Name of the student	Department	Details of prize won	Remarks
1.	Prajwal Kotian and Raj	IT	-	Winner
	Shah			
2.	Gaurav B. and Gaurang A.	COMPS	-	1st Runner-
				Up
3.	Karan Shah and Chirag	-	-	2 nd Runner-
	Jain			Up

Sample Photographs of the Event/Activity





EVENT 3: KEYWORD RUSH

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						20
TY						30
LY						

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Description:

- ➤ This was a fun informal event wherein participants had to compete against each other to make the maximum number of keywords possible on the Connect-4 game board using the letters available to them. The participant with the maximum number of keywords made using the least number of letters was declared the winner of the event. The keywords had to be from popular programming languages like C, C++, Java, etc.
- ➤ Gaurang, one of the participants, was declared the winner of the event with 8 keywords made with just 22 letters.

Details of winners and their respective prizes

Sr. No.	Name of the student	Department	Details of prize won	Remarks
1.	Gaurang A.	COMPS	-	Winner

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
9.	2 nd	2018	November	5:15 P.M. to	B309,	Workshop on Game Development
				7:30 P.M.	B314	Using Python

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						25
TY						33
LY						

Report of event/ activity

Event: Workshop on Game Development Using Python

Speakers:

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Lab No.	Speakers
B309	Nikhil Bhardwaj (Technical Team) and Varada Harikumar (Creative Team)
B310	Zenil Haria (Technical Team) and Preeti Podar (Event Tea

Description:

- This workshop was conducted for FEs and was aimed at introducing the concepts of basic game development using Python and more specifically using PyGame which is a set of Python modules designed for writing video games; it includes computer graphics and sound libraries designed to be used with the Python programming language.
- The speakers implemented 'Snake', a basic game using PyGame and throughout the implementation, they covered the following topics:
 - Initializing the game window, setting up its dimensions using predefined methods of the PyGame module.
 - Creating the structure of the 'snake' and the method to store the positions of all its consecutive blocks that will be added one by one as it consumes the 'food'.
 - Movement of the snake with respect to each of its blocks, most importantly, the head block.
 - Event handling of the entire game wherein it is decided what happens when a certain 'event' such as pressing of a key from the keyboard takes place. In this case, the movement of the snake is to be controlled via the keyboard.
 - Defining the scenario when the snake consumes the food.
 - Finally, taking care of the fact that on collision of the snake on the edges of the window, the game should end or in other words, taking care of all the edge cases. Also, the codes were executed and the students could then practically see and understand how the game actually works.
- At the end of the session, the students submitted feedback about the workshop. From the feedback received, majority of the students found the workshop to be useful. The content and the speakers were equally appreciated.

Sample Photographs of the Event/Activity





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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
10.	2 nd	2019	February	10:00 A.M. on	Seminar	HackIt (TechNext 2019)
	and			2 nd February to	Halls B113,	
	3 rd			5:00 P.M. on	B507 and	
				3 rd February	B517	

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
\mathbf{FY}						
\mathbf{SY}						38 teams
TY						36 teams
LY						

Report of event/ activity

Event: HackIt (TechNext 2019)

Description:

- ➤ HackIt (TechNext 2019) was a full-fledged 24-hour overnight hackathon with the participants working in four primary domains- Machine Learning/ Artificial Intelligence, Augmented/Virtual Reality (AR/VR), Blockchain Technology and Web/Application development.
- The purpose of the hackathon was to encourage budding coders and innovators to explore newer and fascinating domains like AI and Blockchain and come up with ideas and products that could solve modern-world problems in ways more efficient and innovative than the ones existing. Keeping that in mind, a set of problem statements in each of these domains were curated by the title sponsor, Capgemini and the other respective sponsors.
- The main event began on 2nd February at 10am with a brief seminar by Dr. Prasad Ramanathan, Sr. Director at Capgemini Technology Services India Ltd. He spoke about the company, its values and beliefs, the current working scenarios, products and services that they were working on presently and the various employment opportunities available at Capgemini for aspiring graduates.
- After the seminar, the teams were led to the seminar halls (B507 and B517) for the hackathon. They were provided with their respective net IDs for internet connection and charging ports. The hackathon then commenced at 11:30am. Faculty-in-charge of the council, Mrs. Suchitra Patil visited the venue to get updates about the event.

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- Feams continued with their work throughout the day and were given breaks for lunch, tea and snacks and dinner. The CSI council members were present at the venue throughout the event to assist the teams with anything required and to ensure that the hackathon proceeded smoothly. At 3am in the morning, Mr. Harsh Vitra from riidl visited the venue and interacted with all the teams to check up on their respective projects and the progress they had made.
- ➤ Teams kept working on their projects till 9 in the morning (on 3rd February) when they were called in for breakfast. Also, the Student Branch Counsellor (SBC), Dr. Manish Potey and faculty-in-charge, Mrs. Shweta Dhawan Chachra visited the venue to check up on the updates of the hackathon. Dr. Ramanathan from Cappemini also visited the venue and interacted with the teams regarding their work.
- At exactly 12pm, all the teams submitted their respective solutions on HackerEarth. This was followed by the first round of elimination wherein all the teams were asked to present their work in front of the panel of judges consisting of Dr. Ramanathan from Capgemini, Mr. Gaurang Shetty and Mr. Harsh Vitra from riidl, Dr. Irfan Siddavatam, Associate Professor, Department of Information Technology, KJSCE and Ms. Devika Shanbhag, an alumnus of KJSCE and the exTechnical Head of CSI-KJSCE. In this round, the teams were judged based on the following criteria: addressing the problem statement (45%), functionality of the implementation (25%), USPs of the idea (20%) and UI/UX of the application (10%).
- After the first round, a total of 6 teams were shortlisted for the next and final round. In this round, the shortlisted teams had to give a final detailed presentation of their project to the panel of judges while also being cross-questioned by them. After this round ended, the judges deliberated over the work of all the shortlisted teams and came up with the list of winners. A quick vote of thanks was extended to all the panelists and they were felicitated with mugs by the faculties-in-charge. Lastly, the list of winners was announced.
- All the teams were felicitated with bouquets and T-shirts by the panel of judges. A couple of teams were also offered internship opportunities at riidl by Mr. Gaurang Shetty and Mr. Harsh Vitra. The event ended with a final vote of thanks by the council to each and every team and the panelists for their involvement and participation.

Details of winners and their respective prizes

Position	Name of the student	Department	Project Name	Remarks
	Atharva Kamat, Aamir	COMPS	Monopoly	-
1.	Darukhanawalla, Kushal			
	Doshi			
	Ketki Davda, Pranavi	COMPS	AR Indoor Navigation	
	Choudhary, Darshee		_	2 nd Position
2.	Machhar			Jointly
				Shared
	Roshan James,	IT	Blockchain Bit-by-bit	

	C1 1 1 1 1			
	Chaitanyakrishna			
	Dukkipaty, Mithilesh			
	Chaudhari, Shadrak			
	Gurupnor			
	Shubham Singh Bisht,	-	Eye Blink Reminder	-
3.	Diksha Verma, L.			
	Elangovan			

Sample Photographs of the Event/Activity

















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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
11.	18 th	2019	March	5:45 P.M. to	B309 and	Workshop on Web
				7:30 P.M.	B313	Development using Flask

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						2.4
TY						24
LY						

Report of event/ activity

Event: Workshop on Web Development using Flask

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Speakers:

Lab No.	Speakers
B309	Darshan Chheda (Jt. Financial Secretary) and Priyanka Kale (PR Team)
B313	Smit Vora (Event Team) and Ankita Patil (PR Team)

Description:

- ➤ This workshop was conducted for all the FEs, SEs and TEs and was aimed at introducing the concepts of basic web development using Python and more specifically using Flask which is a Python Module used for light-weight web development. The content of the workshop was segregated into two sections based on the difficulty levels- one for the FEs and the other for the SEs/TEs.
- The speakers covering up the content for the FEs implemented a weather app using an API and throughout the implementation, they covered the following topics:
 - Introducing programming in Flask using "Hello World" program.
 - Explaining HTTP requests: GET and POST methods.
 - The need of API and requests.
 - Regarding JSON Format.
 - Rendering the HTML template.
 - Passing parameters to the HTML template.
- The speakers covering up the content for the SEs and TEs implemented BuzzNet, a common web platform for people to come forward and share their creative strings with a title and description. Throughout the implementation, the following topics were covered:
 - Introducing programming in Flask using "Hello World" Program.
 - Explaining HTTP requests: GET and POST methods.
 - Session in Flask.
 - Database Setup, Querying and Management using SQLAlchemy.
 - User Signup and Login using Flask-User.
 - Making WTForms for user credentials and new posts using Flask-WTF.
 - Rendering the HTML template.
 - Passing parameters to the HTML template.
- At the end of the session, the students submitted feedback about the workshop. From the

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feedback received, majority of the students found the workshop to be useful. The content and the speakers were equally appreciated.







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Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Description of Activity
12.	5 th - 6 th and 13 th -	2019	April	10:00 P.M. on 5th April to 10:00 P.M. on 6th April and 10:00 P.M. on 13th	CodeWars 3.0
	14 th			April to 10:00 P.M. on 14th April	

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						91 in Round 1 and 28 in
TY						Round 2
LY						

Report of event/ activity

Event: CodeWars 3.0

Description:

- Code Wars is the annual inter-departmental competitive programming contest conducted by CSI on HackerRank and this year, the third edition of the same (Code Wars 3.0) was held and like every year, the competition witnessed an amazing amount of participation from all students alike.
- ➤ The purpose of the competition was to encourage all students, irrespective of year of study or department, to foray into the domain of competitive programming and try and come up with solutions to a set of coding challenges within a given time limit and also, compete on behalf of their department in the process.
- ➤ The competition was conducted in two rounds Rounds 1 and 2 each round consisting of 5 problems of varying difficulty. Each problem was allotted a score and a correct solution when successfully submitted was awarded that score, taking into consideration the test cases satisfied and the amount of time taken.
- ➤ Apart from individual scores, the departmental scores were calculated as well based on the following rules:
 - Scores of the top 10 coders from the department were added to the department's score.
 - For every code submission with score more than the scores of 50% of the coders, the department was awarded with 5 points.

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- For every valid registration, the respective department was given 1 point.
- ➤ Individual and departmental scores of both the rounds were combined to generate the final scores. IT emerged as the winning department with a massive score of 2959.99 with Computer following up at the second place with a score of 1967.55. The individual winners were declared as well.

Details of winners and their respective prizes

Position	Name of the student	Department	Year of Study
1.	Atharva Gole	COMPS	TY
2.	Uddesh Kadu	IT	LY
3.	Raj Shah	IT	TY