



ANNUAL REPORT 2018-2019

DJCSI ORGANIZING COMMITTEE 2018-2019

CHAIRPERSON
RAJ PAREKH

VICE
CHAIRPERSON(TECHNICAL)
DHARMIL KHANDHAR

VICE
CHAIRPERSON(ADMINISTRATIVE)
RIKEN GALA

SECRETARY
DIMPLE RATHOD

SECRETARY
MOXA DOSHI

CO-SECRETARY
MAUSAM AGRAWAL

TREASURER
ANKIT PATEL

CO-TREASURER
ANSH SHAH

TECHNICAL HEAD
AADIT KACHALIA

TECHNICAL CO-HEAD
APURVA DANI
MONIL DIWAN

EVENTS HEAD
JAY CHATWANI
ADITYA KUMAR

LOGISTICS HEAD
ADITYA DIXIT

MARKETING HEAD
DIMPLE RATHOD

SOFT CREATIVES
HEAD
MONIL DIWAN

HARD CREATIVES
HEAD
AJAY LAD

PUBLICITY HEAD
SHUBHAM JAIN

EDITORIAL HEAD
ADITYA KUMAR



2018-19

DJCSI ORGANIZING CO-COMMITTEE 2018-2019

TECHNICAL TEAM

Bhavesh Singh
Priyam Vora
Bhavin Mehta
Jigar Avalani

MARKETING TEAM

Aayushi Gandhi
Jash Jain
Pushkar Bhuse
Parth Meswani
Abheet Shaju
Neel Doshi

PUBLICITY TEAM

Sweety Kakadiya
Devna Dave
Ansh Disawal
Musaddiq Bakali
Rohit Singh
Mudassir Khan

EVENTS TEAM

Parth Kansara
Arti Koul
Riya Muni
Ali Abbas Rizvi

LOGISTICS TEAM

Devansh Kapadia
Devansh Mehta
Jay Rambhiya
Manav Jain

EDITORIAL TEAM

Arsh Juned Shaikh
Riddhi Shah
Parth Kansara
Devansh Kapadia
Preet Shah

SOFT - CREATIVES TEAM

Aayush Shah
Parth Tank
Janvi Chitroda

HARD - CREATIVES TEAM

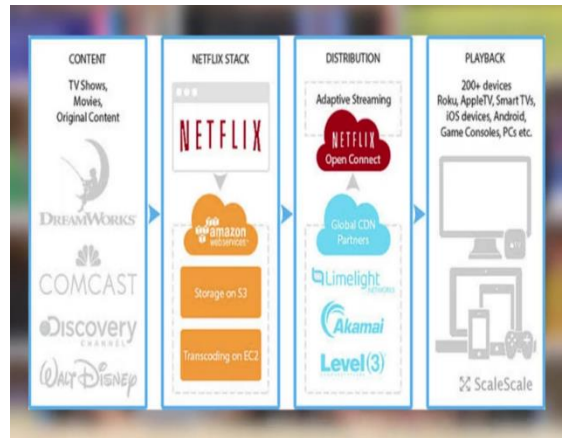
Renita Saldhana
Adnan Hakim
Smit Malkan
Ashwin Swaminathan



TECHTALES



(Video on augmented reality)



(Video on Netflix)



(Introductory video)



(AR video)



S V K M ' S
D W A R K A D A S J . S A N G H V I C O L L E G E O F E N G I N E E R I N G
J.V.P.D. Scheme, Bhaktivedanta Swami Marg, Vile Parle (west), Mumbai-400 056



DJCSI came up with its amazing and outstanding Youtube Channel, TechTales, a chain of short informative videos for enlightening some facts in the technical domain. The videos had a great impact on students. The motive behind this was to ignite curiosity about the technological trends among the student fraternity. The first video was an introductory video starred by Chairperson of DJCSI – Mr. Raj Parekh which was released on 25th December, 2018. The next video in the series was released on 26th December, 2018 on the topic ‘Working of Netflix’ hosted by the Secretary & Marketing Head, Ms. Dimple Rathod and Publicity Head, Mr. Shubham Jain. The third video on the title ‘Magic Behind AR’ was released on 23rd January, 2019 by Treasurer, Mr. Ansh Shah and Co-Committee Member, Mr. Devansh Kapadia.

Youtube channel : https://www.youtube.com/channel/UCyqxlrPUDnbkPOzA9c_mHaA

Link to TechTales on the official DJCSI website: <http://djcsi.co.in/techTales.php>



MEMBERSHIP DRIVE

Desk on Ground Floor

Contact:
Riken Gala 9821137382
Moxa Doshi: 8897146181
Mausam Agrawal: 9967600662

Registration starts from 9th Jan

CSI MEMBERSHIP

- CSI MEMBERSHIP CARD
- PROTOCOL MAGAZINE
- WORKSHOPS: PYTHON, MYSQL, GAMING, WEB DEVELOPMENT
- CODESHASHTRA: OUR FLAGSHIP EVENT
- DJCSI TECH TALES
- CSI WEEK
- MONTHLY NEWSLETTERS ON LATEST TECH
- GUIDES ON IOS, ANDROID & DESKTOP APP DEVELOPMENT

Facebook Page: Djsce CSI
Instagram Page: djcsi
DJCSI App

LinkedIn Page: Djsce CSI
www.djcsi.co.in
djcsi1819@gmail.com

Date: 9th – 18th January 2019

DJCSI held its membership drive for more than a week from 9th January, Wednesday to 18th January, Friday. The desk was set up on the 6th floor near the lift. Also, there was a technical attraction set up on the ground floor lobby. All the co-committee members were allotted slots for the desk duty. The desk was open for all the students of Second, Third and fourth year of all departments and the duration for the desk set up was from 8am to 4pm. The price for the drive was Rs.350. Members would receive copies of the DJCSI annual magazine “Protocol”. They would also receive two newsletters in the month of April via mail. Members were given access to the CSI Knowledge Portal with unique Id and password. At the end of the membership drive, CSI got 90 members which was a huge success for DJCSI.



SEMINAR – IMS INDIA



Company: IMS India

Venue: D. J. Sanghvi College of Engineering

Time: 12:00 PM- 1:00 PM

Class Room No: 61

Date: 24th January 2019

Attendance: 55 students

A seminar was taken by IMS India for the students of SE-IT. The seminar was based primarily on GRE. There was an active participation from the students of the class. The students were curious about the possible options for studies abroad.



SVKM'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
J.V.P.D. Scheme, Bhaktivedanta Swami Marg, Vile Parle (west), Mumbai-400 056



CSI WEEK





Android Development Workshop

Name of the Speaker: Mr. Ashish Khot

Designation: Professor

Company: Innovians Technologies.

Venue: D. J. Sanghvi College of Engineering

Date: 28th and 29th Jan, 2019

Time: 9:00 AM-4:30 PM

Class Room No: 34

Attendance: 72 students

Topic: Android Development

The first day of CSI week commenced on Monday, 28th January, 2019 from 9 am. to 4:30 pm. in D. J. Sanghvi College of Engineering.

The topic of the first workshop was Android app development. This workshop witnessed a large number of participants from both first and second year. The workshop was conducted in the Room no. 34 on the 3rd floor. 72 students attended the workshop. The topics that were covered were Introduction to Android, uses of Android, different languages used for Android application development, basics of Java and a few applications. All the topics were taught by Mr. Ashish Khot from Innovians Technologies.

The workshop started after a delay of 1 hour due to the tedious installation process of Android Studio and certain difficulties faced by the students during the process. Mr. Ashish started by introducing students to Android and its uses. He explained in brief the uses of Android. After discussing the languages used for Android application development like Java, Kotlin, Python, etc. he gave students a basic idea about java programming language and its object-oriented approach. The first-year students were a bit lost during the start due to the lack of knowledge about Java, resulting in a minor chaos. However, once the practical applications started, students' interest started increasing.



The practical session started by teaching the students the different kind of projects available and starting with the easiest one. Then he continued by teaching them how to add text boxes, labels and buttons. He taught them about how to take actions when a button is clicked, changing the text in the text box. After the end of this topic, students were given a break at 12:45 pm. During the break, Mr. Ashish along with other CSI members were solving the doubts of the students. The break ended at 1:30 pm.

After the break, he taught students how to accept information using “EditText” and storing and using the information. After this, the students were taught on how to create a new page and switching between the two pages. This was followed by teaching them how to transfer information from one page to another. The students seemed quite indulgent during the process. At around 3:45 pm., he started to teach them Text-to-speech conversion. This was a quite an interesting topic. The students were able to create applications properly. However, a few students faced errors. These errors were cleared by Mr. Ashish and the members of the CSI committee. The workshop was wrapped up at 4:20 pm. and the rest of the time was spent in doubt solving. The workshop ended at 4:30 pm.

The class was quite attentive for the most part during the workshop. The discussions happening among the students were mostly related to the session itself. The CSI committee members along with Mr. Ashish had to scramble from one place to another to solve queries as the students were inquisitive to know more.

The second day of CSI week was a continuation of the Android application development workshop which commenced on Tuesday, 29th January, 2019 from 9 am. To 4:30 pm.

Mr. Ashish Khot along with assistant mentor Mr. Chirag Tank arrived at the venue early to solve any doubts or issues faced by the students. The first topic covered was making an application for sending SMS. This application required to request permissions from users. The students were taught how to request for permissions if the permissions aren't granted. Followed by this, the students started following Mr. Ashish as he continued to make the application. Most of the students were able to make a proper working application for sending SMS. Some of the students were facing network issues and couldn't test their application. However, Mr. Ashish told them that an AVD can send and receive messages to another AVD. This helped students with testing Their applications. The errors of the students were solved by Mr. Ashish and Mr. Chirag along with other CSI members. This application took quite a time to make. The students were given a break at 12:40 pm. and the session continued after 1:30 pm.

After teaching the students about making an SMS sending application, Mr. Ashish moved on to teach them how to use the google maps API in applications. This was quite an interesting topic for students and helped them improve their coding skills. The students were required to



get a key to use the google maps API, Mr. Ashish guided them through the process of getting the key. Some of the students however, had troubles because of slow internet, which slowed down the session a bit. Once the students obtained the key, they were taught about where to use the key. After the key was put at its place, they tested the application. They could see the map and a location was marked in Australia. Later, he taught them on how to get the users current location and mark it on the map. He told them about the two methods using which one can get their location: 1. Network Provider and 2. GPS provider. After selecting one of the two options, the students followed Mr. Ashish as he was showing them how to put a marker on the user's current position. Most of the students were able to successfully make a working application. The doubts and errors of other students were solved by him along with Mr. Chirag and other CSI members. This continued till 3:30 pm.

At 3:30 pm., he took a new and important topic SQLite. The First year students were quite lost during this entire session as they had no idea about SQL. He created a table in back end and was trying to insert values to the table using the application. However, his code met an error that didn't allow him to make a fully working application in time. Except that, the entire workshop went smoothly. The workshop ended at around 4:30 pm.

The students were quite attentive for most of the part of day 2. They had a lot of doubts and errors which were solved quite skillfully by Mr. Ashish, Mr. Chirag and other CSI members.



Augmented Reality Workshop

Report: AR Workshop

Name of the Speaker: Mr. Dinesh

Designation: Professor

Company: Innovians Technologies.

Venue: D. J. Sanghvi College of Engineering

Date: 30th and 31st Jan, 2019

Time: 9:00 AM-4:30 PM

Class: TEIT

Attendance: 75 students

Topic: Augmented Reality

The second workshop of CSI Week was based on Augmented Reality. It was conducted by Prof. Dinesh. He has conducted 30+ trainings in IITs, NITs and other colleges, across India. The workshop started at 9:45 am in Room no.34, with Moxa Doshi giving the introduction. This was followed by a short introduction by Prof. Dinesh himself.

He started by teaching the basic theory of Augmented Reality-definition, various types of AR and how each type is developed. There are 4 basic types of AR - Marker-based, Marker-less, Superimposition-based and Projection-based. The students were taught to develop applications based on Marker-based and Marker-less AR. The platform used for this was Unity 2018.3.

Distribution and installation of Unity went on till 11:30 am. Post this, the students were required to create accounts and log into Vuforia-an online platform which provides resources for development of AR-based applications. The required assets for the development of the project were imported from Vuforia. Prof. Dinesh then explained how edge detection is used for placing the model on the image. He also explained various other features of Vuforia. This entire phase was very crucial in developing the final project. The students also learned how to make actual models on their own.

On the first day, the students began working on developing the Marker-based applications. They were taught the creation and modification of basic objects. The concepts taught by the teacher enabled students to impart motion to the objects. This includes basic motion like



shifting from one place to another as well as rotating the object. This part allowed students to extend their creativity to their projects. Next, the students learned how they can import images into their projects. Inbuilt animations can be imparted to the models which provides a lot of functionality to the programmer.

Once all of this was completed, most work for the first day was completed. After this, the teacher attended to all the doubts that the students had. Each and every one of the students got a clear idea about how to develop an application based on Marker-based Augmented Reality.

Day 2 started with exporting and testing the application developed on the previous day. New doubts arose as the first application was in its finishing stages. These doubts were cleared before moving forward. After completing the Marker-based AR application, the students started with the development of Marker-less AR application. This was easier as compared to the former application, mainly because the students had a basic knowledge about the concepts of Augmented Reality.

All in all, the workshop was a huge success, as quoted by some of the students as well. The students got a chance to learn tons of interesting concepts and implement them on-site. The huge response and the positive feedback that was associated with this workshop, has inspired DJCSI to step it up even more for the next year.



SEMINARS





1. Seminar by Edubroad

Name of the Speaker: Pratibha Jain

Designation: Professor/Founder

Company: Edubroad

Venue: D. J. Sanghvi College of Engineering

Date: 15th February, 2019

Time: 10:00 AM-11:00 AM

Class Room No: 62

Attendance: 75 students

Edubroad came to the college for a seminar on GRE on 15th February, 2019. This was a combined session for both the SE-IT and TE-IT. The session was quite interactive. The students were made to give a 20-minute test in the end.

2. Seminar by Jamboree

Company: Jamboree

Venue: D. J. Sanghvi College of Engineering

Date: 27th and 28th February, 2019

Time: 1:00 PM-2:00 PM

Class Room No: 62

Attendance: 60 students

Jamboree classes took a session on GRE vs MBA for SE-IT and TE-IT on 27th February and 28th February respectively. This was the most interactive seminar among all the ones that happened this year. The speaker was extremely proficient and had loads of experience. Many students even waited after the seminar to ask doubts.



CODESHAstra 5.0

ROUND 0





Date : 10 February 2019

Time : 7:00 am to 5:00 pm

Venue : D.J. Sanghvi College of Engineering.

Round 0 of CodeShastra 5.0 commenced on Sunday, 10 February, 2019. CodeShastra 5.0 witnessed a large number of applications from our college this year. The two drawing halls on the 5th floor (DH1 and DH2), two classrooms of the Production Department and two classrooms from the Computer Engineering department were utilized for the event. A total of 72 registrations were made out of which 70 teams participated. 260 participants were present for the event. The students belonged to first, second, third and fourth year from the departments of Computer Engineering, Information Technology and Electronics and Telecommunication. The reporting time for the students was 7:00 am and the competition begun at 8:00 am. Participants had to select a problem statement and were given 7 hours for coding.

This was an intra-college elimination round for the upcoming Main Round 1 of CodeShastra. Out of the numerous teams that participated only a few qualified for the Main Round. The main purpose of this round was to provide a podium to all students of DJSCE to test their proficiency in coding and

problem-solving abilities in a rigorously competitive environment within a given time period. Round 0 provides a tremendous platform for beginners to gain necessary exposure and experience to develop as competent coders in the future. The main reason behind the elimination of teams is either their inability to complete their products on time or presenting a product that does not precisely formulate and portray the main idea behind the problem statement or lacks the necessary functionalities expected out of it.

The problem statements for this round were released 24 hours prior that is on Saturday, 09 February, 2019. The participants were directed to create either a Website or a Mobile Application (Android) using any platform on any one of the problem statements within the stipulated time period. There were four problem statements which were as follows:

1. "Team alpha come in!": An event management team/company has an ongoing event. Team members need to communicate with each other for efficient functioning and coordination. Available systems like calling or texting are not helping quite efficiently. So you need to develop an end user product (mobile or web application) which facilitates real time, half or full duplex vocal communication between team members.
2. "Next Station Vile Parle": Indian railway provides concession to students for travelling to their colleges/institutes. Many colleges have setup online systems for accepting railway concession requests from students. But the processes on the Railway/Govt. side



are yet conventional paper based. We want the teams to develop a platform/portal for communication between colleges and railway, such that students don't need a physical concession certificate to issue their passes. Any kind of developments are not mandatorily required for communication between student-college, student-railway.

3. "Get the ball rolling": Sports Analytics has become one of the most dynamic fields in recent times and has gone beyond tracking data on paper and gaining insights. Making use of technologies, companies and expert can create performance metrics of player and teams real-time. Developers are expected to tackle this challenge and improve the performance of the team by providing the best solution.
4. "Abki baar ___ Sarkar": Political analysis using social media is used to understand the public opinion and trend especially during election time. With the ever emerging social media, more and more people are expressing their sentiments about current affairs on blogs, microblogs and social networking sites. Teams are expected to come up with a solution to show how this data can influence important decisions.

Mentors with vast industry experience in the fields of web and application development were invited during this round to assist and guide the students to overcome any obstacles encountered by them while developing their products. Some mentors worked for reputed MNCs like J.P. Morgan and Morgan Stanley. The mentors also had the responsibility to act as judges at the end of the competition. There were a total of 5 mentors all of whom were DJSCCE alumni. The mentors of this round were Jash Kothari, Ankit Anchan, Sumit Busa, Akshen Kakadia and Amar Mehta.

The participants were then briefed by the mentors about the minimum functionalities that were expected to be included in their products. The mentors also helped the students by providing generous and valuable insights and assisting them to tackle any difficulties both trivial and complex at times even explaining new concepts from scratch. Participants found their feedback and guidance to be inordinately supportive and extremely constructive. Professor Purva Raut from the faculty was also present during the event. The teams were allowed to work on their projects till 3:00 pm after which the presentations commenced. The teams showcased their products to the mentors who now acted as judges. Participants were given a total of 10 minutes for presentation with 5 minutes for introduction and explaining their solutions and 5 minutes for a Q&A session with the judges. The presentation was divided in 3 panels. A total of 60 teams presented their products out of which 30 qualified for the Main Round of CodeShastra 5.0.



CODESHAstra 5.0 ROUND 1





Date: 2nd March-3rd March, 2019

Time: 12:00 PM (2nd March) - 7:00 PM (3rd March)

Venue: D.J. Sanghvi College of Engineering.

2nd March: All participants of DJCSI's flagship event, CodeShastra were expected to report at 12 noon at the college premises. The inauguration ceremony took place in the seminar hall, 1 pm onwards. It began with the ceremonial lighting of the lamp by our Principal, Dr. Hari Vasudevan with Vice Principal(Admin), Dr A. C. Daptardar, Vice Principal(Acad.), Dr. Manali Godse, Training and placement officer, Mr. R.S. Khavekar, Dr. Neepa Shah (H.O.D IT) and the entire IT department faculty. A video depicting the theme of Codeshastra 5.0, "Financial Technology", left everyone enthralled. The principal and Dr. Neepa Shah were invited to say a few words of encouragement and guidance. The mentors for the event invited to guide the students and provide internships from the companies like Cere labs, SM Global, JP Morgan Chase, Quantipi and TCS were also felicitated. The Judges panel consisted of admirable personalities from reputed tech organizations:

- Ajit Joshi, former CSI Mumbai secretary
- Abhijit Mohite, Vice President at JP Morgan Chase
- Amogh Vaishampayan
- Akshay Doshi
- Vishal Vadina
- Nirav G Shah
- Gaurav Ghelani
- Amol Bivarkar
- Dr. Shantanu Londhe

Mentors with vast knowledge and industry experience in the fields of web and application development were invited during this round to assist and guide the students to overcome any obstacles encountered by them while developing their products. The group of mentors included alumni of DJSCE : Jash Kothari, Vikas Salvi, Chirag Jain, Dhvani Mehta, Prachi Doshi and Ashwin Swain along with mentors from tech companies: Amol Bhivarkar, Dr. Shantanu Londhe, Sudhi Verma, Krina Rana, Jithin George, Dee Yadav, Gunjan Bhaiya and Gaurav Ghelani.

The ceremony ended with Ms. Dimple Rathod and Mr. Shubham Jain of DJCSI saying a few words expressing their gratitude to all the faculty and committee members for their constant



support and encouragement and also mentioning the rules of Codeshastra 5.0 to the participants.

From 2 pm onwards on 2 March, DJCSI began its 24-hour hackathon. Codeshastra 5.0 witnessed a footfall of about 250 zealous participants grouped in 70 teams with 38 teams from numerous outhouse colleges. All the classrooms and laboratories of the IT department; labs CL5, CL6 and classroom C1 from the computer engineering department along with LR2 and LR3 on the fifth floor were utilized to accommodate the participants. The students worked on their products throughout the night till 2 pm on 3 March, Sunday. Food and beverages were provided to the participants. Unrestricted Wi-Fi was also provided to all participants. All participants received certificates of participation from CSI Mumbai. All applications developed during the event constitute as intellectual property of DJCSI and all participating teams were informed about the same. The problem statements were provided by the established companies Foxmula, TCS and Quantiphi and were released on 28 February at 12 noon. They were based on the theme Fintech and were as follows:

1.) Pattern Detection for Insurance Fraud

- Insurance fraud is a phenomenon occurring within every stage of the insurance lifecycle: At policy subscription, giving fake identity data and fraudulent objects are among the many strategies that we see applied today. But also the stages of claims declaration (over claiming, fake identities) and payout processing (identity theft, interception of payments) are not without threat.
- Notwithstanding today's technological advances, capabilities to detect such fraud attempts remain vastly unexploited. The ways in which we gather, use and share relevant data within and across industries remains a key obstacle for fraud detection strategies to reach their full potential. Every form of fraud detection is different and may require a specific solution.
- The solution should provide additional intelligence within large structured and unstructured data to automatically flag suspicious claim declarations, detect fraudulent claims using pattern detection, and enrich fraud detection using open source datasets. Your solution may also exploit unstructured data (like claims descriptions, voice to text from calls etc.)
- Your solution must be applicable in at least one of these insurance domains: Car Insurance, Home Insurance (theft, fire, natural disasters...), Labour/Liability Insurance/Guaranteed Income, and Life/Health Insurance.



2. Your Personal Investment Manager

- Investment Management is another key trend in FinTech, which involves the buying and selling investments within a portfolio. Banking, budgeting, taxes and portfolio management can come under Investment Banking.

- The developers can exploit this field and develop a product which should fulfil following requirements:

1. Maintain portfolios of individual customers
2. Suggest them stocks and other investment options which are best for them.
3. Use predictive algorithms and consider various factors influencing price of stocks and accordingly shortlist the best stocks he should invest in.
4. Indicate the right time to sell the stocks, thus maximising his profit.

- Bonus features:

1. Can include other investment options other than stocks which are expected to return high gains.
2. Can exploit trends of global market and predict the upcoming trends in local market, thus making your model robust to capricious global market.

3. Crowdsourcing for Women Empowerment Projects

- While there are a large number of individuals and organizations working for the cause of women's empowerment, many struggle to find support in terms of finance as well as the right kind of human resources. On the other hand, there are also many individuals and companies that are willing to provide their time and support to these causes/projects. A platform which connects these two sets of people can encourage many initiatives for gender equality, which would otherwise not be able to get off the ground. An online platform may be developed to facilitate this interaction, while maintaining a level of security for the users.

- General problem statement:

1. At present, there are many private platforms help connect projects to financial and human resources but there is no platform catering to both profit and non-profit ventures specifically for women empowerment.



2. There is also no platform which allows exchange of skills as well finances in one place
3. A government run C2C crowd-sourcing platform will fill this gap and allow individuals and organizations looking for funding and other support to connect with others who can provide this support to them.

- Desired Outcome:

1. Platform to connect the individuals or organizations that are seeking support and the one who are offering support.
2. Administrators to verify and monitor transaction of funds and services Technology that can address this issue partially.
3. An online portal which allows registration of users through automated KYC verification followed by a level of offline verification by a team.
4. The creative use of technology should be explored to create the best possible protection against fraud, fake identities, money laundering etc.
5. The portal should have the option of a payment gateway so people may choose to pay directly.
6. The system should create profiles for different types of users while also allowing both public and private interactions between them.

4.) Financial Assistance Chatbot

Education in India (and around the world) can be an expensive affair. Bank loans form a big part of relieving the burden from student's shoulders. However, information regarding the loans is many a times buried deep in the websites of these banks and students have to find a way to navigate through millions (number may be slightly exaggerated) of links.

In an effort to make this whole experience more natural and intuitive, Let's build a chat bot that can understand student queries and give suggestions about loans, investing money in different assets, SIP's, MF's, Stock details etc.

Details:

Focus should be on the answering questions and making the conversation as natural as possible.

Bot should be able to fetch user data (for example account balance) from a database/API to make the experience more personal.



If the bot can't answer the user's query, it should be able to forward this to a live agent (not mandatory).

Bot should be deployed via a web interface (not mandatory).

5.) Manage your expenses

- In today's world where all the money is digital, there is hardly any track of expenses done by any individual or family. We would like you to design an app, which helps the individual, and family in tracking the day-to-day expenses made.

- The expenses captured via app should be able to provide detail insights on investment, budgeting and saving. It should provide guidance in terms of investment if saving is above 30% and if the savings are between 0 to 10%, it should design the budget for individual, which helps in increasing the savings on yearly basis. It should apply the 50-30-20 rule limiting needed expense to 50%, and "WANT" expenses to 30% and savings to 20%. The user should have the option to change to any other percentage.

The main purpose of CodeShastra was to provide a podium to all students of various colleges along with students from within the college to test their proficiency in coding and problem-solving abilities in a rigorously competitive environment within a given time period. Codeshastra provides a tremendous platform for beginners to gain necessary exposure and experience to develop as competent coders in the future. All the teams were expected to complete their products on time and present their respective products that precisely formulate and portray the main idea behind the problem statement and contain the necessary functionalities expected out of them.

Our Principal, Dr. Hari Vasudevan, visited the premises of the event and gave a few pointers to maintain the sanctity of the event. The event proceeded smoothly for a couple of hours. At 8:30pm, dinner was provided to the participants. An unlimited supply of coffee and tea was also arranged to get the participants through the night. Arrangements were made in case any of the participants needed to take a break and sleep for a while. Sleeping bags were arranged for the same.

Faculty members Prof. Arjun Jaiswal, Prof. Anusha Vegesna, Prof. Harshal Dalvi, Prof. Mitchell D'Silva stayed overnight in the college to resolve any issues that might be encountered.



INDUSTRIAL VISIT



Date: 22nd March, 2019

The TE-IT batch of DJSCE was taken for an Industrial Visit in Infosys Pune on Friday, 22nd March, 2019. The students assembled near the college at 5:45 AM and they departed by 6:15 AM. A total of 68 students from the TE-IT Batch were present for the Industrial Visit. The faculties who accompanied the students were Prof. Neha Katre, Prof. Stevina Correia and Prof. Arjun Jaiswal. The students were charged RS 550 for the entire IV including transport and breakfast. The students arrived in Infosys Pune by 10:00 AM.



The IV started by 10:30 AM with a seminar on IoT. The seminar was conducted by Mr Ravi Asher. Mr Ravi discussed various real life applications and advantages of IOT. The first application that was discussed was connected cars, followed by self-driving cars. A video on Google Waymo was shown subsequently. Mr Ravi went on to give brief descriptions about smart aviation and smart industry respectively. The session was quite interactive and the response from the students was good. The students were also made to do a recreational activity on tongue twisters. The session was concluded with a video about 10 applications of IoT followed by a Quiz. The session went on till 12:00 PM after which the students were given a break. After the break Mr Animesh briefed the students about the work culture at Infosys, growth opportunities and placement process. He went on to give a detailed description of the Infytq Platform which is a learning and engagement platform for students to enhance their technical knowledge and help them bridge the gap between the industry and university. The students listened with eagerness and interest as they understood the need, importance and resourcefulness of such a platform. Infytq offers various courses on latest technologies for free. The session ended by 2:30 PM after which the students proceeded for lunch in the Infosys canteen. The IV was over by 3:30 PM after which students departed for Mumbai. Overall the IV was incredibly successful with a lot of participation, interaction and curiosity shown by the students.



DJASCII





Date: 30 March, 2019

DJASCI is the state level project presentation competition conducted jointly by ACM and CSI in D.J. Sanghavi College of Engineering. The competition attracts a large no of teams from across the city every year who then compete to win the prestigious competition. The teams are required to make a presentation of their final year projects to the faculties, students and judges present on the day of the event. This year a total of 96 teams were shortlisted for the competition out of which 71 teams were present on the day of the event. 56 teams among these were from the Final Years of IT and Computer Department of D.J. Sanghavi College of Engineering. A total of 15 outhouse teams that were shortlisted were present on the day of the event.

The opening ceremony started by 9:15 AM in the Seminar hall of the college. The inauguration comprised of Ribbon cutting ceremony and lamp lighting. The Judges for this year were highly qualified and accomplished professionals from the IT industry with over 10-15 years of Industry experience. The judges were MS. Chitrallekha Bhat, Mr. Devesh Rajadhyax, Mr. Sachin Kadam, Mr. Pinaki Bhowmick, Mr. Nimish Somaiya and Dr. Amiya Kumar Tripathy. The students eagerly looked upon the judges for their feedbacks and constructive on the projects. The participants and Judges dispersed for lunch at 1:30 PM. After an intensely close competition among the participants, it was finally time for the closing ceremony and announcement of winners.

The host for the closing ceremony was Ms. Moxa Doshi (Secretary CSI). The ceremony started with a welcome speech given by the host. After the welcome address, a speech was given by the Principal. The Principal welcomed all the participants, judges and spoke at length about the importance of events like DJASCI in today's day and age. After the Principal's speech was over the HOD of Computer Department Dr. Narendra Shekokar introduced the Chief Guest Ms. Chitrallekha Bhat. Ms Bhat was invited to give a speech by Dr. Shekokar. After the Chief Guest's speech, Prof. Purva Raut introduced the remaining judges. After all the judges were introduced, a feedback session was conducted where the participants and judges shared their experience about the event. After the feedback session came the moment for which all the participants were eagerly waiting for, the announcement of winners. The name of the winners was announced by the host.

The Winners were team AI 64 from BE-IT batch of DJSC. The team members included Tanuj Bohra, Tejas Ved and Shaunak Sonpura. They had developed a Real Time Communication System for speech and Hearing Impaired. The first Runner up were HCI 02. The team members were Shyam Patil, Tejas Ved and Jay Chauhan. Their project title was Syst. Aj. The second Runner up were team AI 16. Their Project title was IoT Device to monitor and track usability of public washrooms. The team members were Abhishek Upadhya, Tejas Sangle, Aparna



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Bhonde and Siddhant Shankar. The cash prizes for the winners were Rs. 15000, Rs. 12000 and Rs. 8000 respectively.

Apart from the Project Presentation, there was a competition on Poster Presentation as well. The project that won the poster presentation competition was Healthcare Analysis. Library Surveillance System and Behaviour Analysis using Mobility data were projects that won 1st Runner Up and 2nd Runner Up respectively. The competition concluded with a Vote of Thanks given by Dr Neepea Shah, HOD of IT Department.