TECHPULSE

OFFICIAL I.T NEWSLETTER

2021

FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
BANDRA - MUMBAI
MOULDING ENGINEERS WHO CAN BUILD THE NATION

TECHPULSE

THE OFFICIAL NEWS LETTER OF I.T. DEPARTMENT OF
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

VISION

Imparting Quality Education in Information Technology for Nation Building

MISSION

To Develop Globally competent engineers, through holistic approach with strong foundation and ability to adapt to changing Technology

Program Educational Objectives:

Establish as Information Technology professionals in organizations that are involved in the creation, maintenance, consulting and use of Information Systems.

Adapt to changing trends in information technology and support business needs through lifelong learning.

Pursue higher education, R&D and entrepreneurship.

Program Specific Outcomes:

Contribute towards real life information system development and implementation.

Learn and practice contemporary IT domain knowledge

Editorial Team

Faculty Incharge: Prof. Garima Tripathi

Student Incharge: Jeswin Thomas- BE IT

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HALL OF FAME

Sujit Noronha and **Dylan Dsouza (Team noob coders)**
got 1st position in the crescendo Hackathon under category 1.

Ethan Palani and **Pushpak Chhajed (Team Tricode)**
got 1st position in the crescendo Hackathon under category 2.

Jeswin Thomas and **Ethan Palani (Team Tricode)**
secured 1st place in Fr. Conceicao Rodrigues Memorial Hackathon
-Unscript 2020

Pushpak Chhajed(BEIT)
got placed in "Its All Good Web Solutions Pvt.Ltd."
with a package of above 10,00,000 .

Team Kavach(Mayank Tanna,Rohin Vaidya,Nidhi Sharma,Nimisha Bhoir)
from Final year were awarded first place in Idea Competition.

Nominated for NATIONAL INNOVATION COMPETITION and qualified
for the second round.

Mayank Tanna
from BEI.T is a certified Ethical Hacker.

Ridhi Bauskar
successfully qualified for Round 1 of
National Engineering Olympiad 3.0 conducted in April 2020.

Started startup of selling glass paintings and got google verified
https://ridglassopolis.business.site/

STRAIGHT FROM THE HEART OF OUR ALUMNI

Sitalaxmi Iyer
Associate,
JP Morgan Services Pvt. Ltd.

I feel immense pride and enthusiasm while reminiscing through the memories I made during my 4 years of Engineering at CRCE. It was a perfect concoction of learning and fun! As students, we were always encouraged to take up projects relevant to the industry and complete support was provided for completing the same. Unlike most engineering colleges, professors were focused on ensuring that the students understood the concepts clearly, which surely has helped me gain the required knowledge. I still have preserved my Java notes from college because the basics were explained to that depth!! The mention of my Engineering days would be incomplete without mentioning the cultural fest Euphoria! It truly lived upto it's name in every manner. Apart from this, the focus that the college places on co-curricular activities be it competitive coding skills or technical councils is immense. I remember being a part of various councils and how it helped hone my interpersonal and management skills. I can proudly state that my career got an amazing head-start due to all the technical and soft skills acquired here at CRCE!

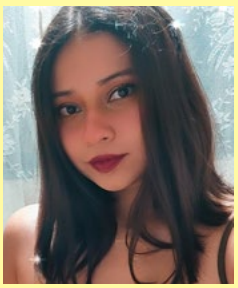
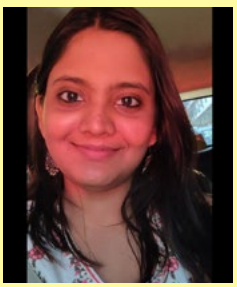
BE IT, 8th Floor, Room 811

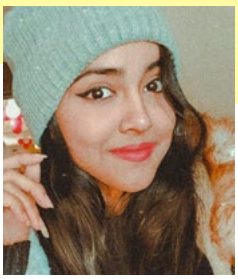
1st August 2017, I walk into a sea of unknown faces and hesitantly settle on a desk that's not too behind, and not too much in front. 4 years later, I know all the names and faces, along with some of their deep secrets too. I know where I sit, and the people around me. I know in which lectures I can afford to talk, and where I have to pay absolute attention. And I am sure, each person in BEIT 2021 knows their way around professors, students, campus, RST, and the rocks.

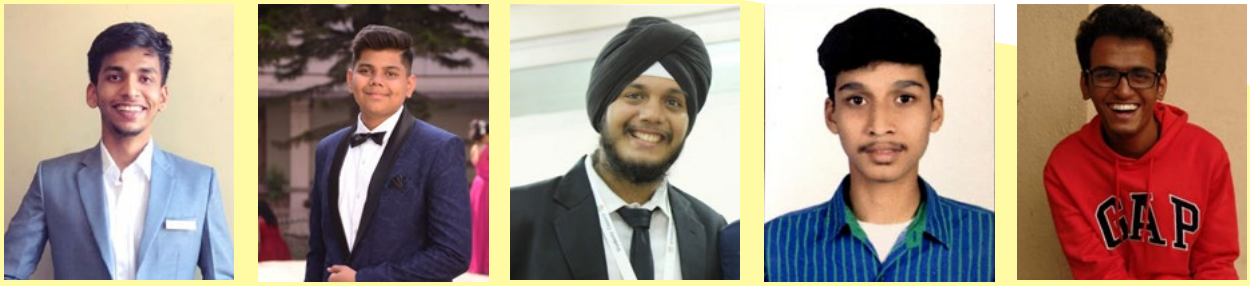
As a class, I personally felt that we lacked the unity that other classes/departments had. And I am so happy to say that I was proved wrong in Euphoria 2020. Where the entire class present on the basketball court stood up and protested. We fought and were backed up by our seniors who stood by us. They were never the kind of seniors that told us to abandon a game we played against them "out of respect" and we all, BEIT 2020, and BEIT 2021 accepted defeat with grace and sportsmanship. That night, with a few of us left at the tapri we proudly call RST, with adrenaline rushing through every inch of our veins we vowed to come back stronger next year, and to convince every other classmate to participate everywhere we could, to win the trophy, or at least give a tough fight. A month later, we were hit by a raging pandemic that made us sit home, and over a year later, we are still at home.

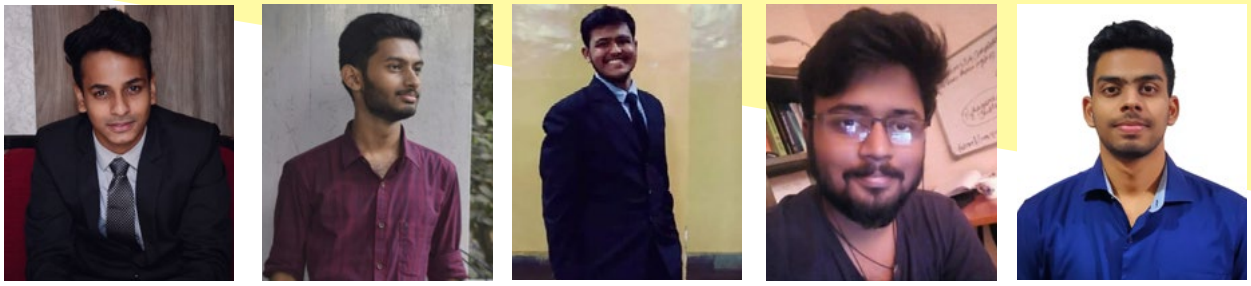
As our final year started, we had no hopes of a Euphoria. The WhatsApp groups were deserted as ever. All the plans we made were disposed of by God like a tissue paper and aimed at a dustbin, it went straight in. And then the first Unit test was announced, and the first question bank was given. And suddenly, the group was alive again, the small groups we had within ourselves as a class saw everyone contributing answers to all the questions; We could study from the entire key that was made with everyones contribution in no time. A doubt was asked and was solved within minutes by someone. We were'nt sitting on the stairs with a friend who was explaining an algorithm at the last minute. We missed our classrooms, we weren't whispering to each other some random gossip during lectures anymore, and we certainly weren't sitting on desks. But we found our classrooms in these WhatsApp groups.

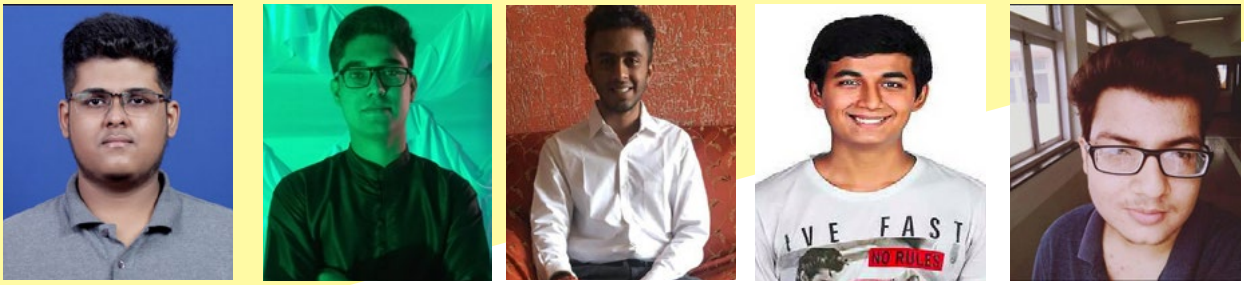
We still have our Final submissions, vivas, and end semester left. And it won't be the same online. We won't be sitting on the corridor floor impatiently waiting for our file to be signed and stamped. Or waiting outside the lab door for the person in front of us to finish his viva. This time, we'll be waiting for a WhatsApp notification that says "next" and then join the meeting. But I am sure we would be just as much anxious and nervous as we would have been for an offline viva. I don't exactly know when it will hit us, that these four years are over. For some, it can be on the day of the final paper, for some when they start their job. I think that moment for me will be when my brother starts college. That is when I will finally realize that I will never be getting these days back, and I'll live his carefree moments vicariously, through him, one last time.

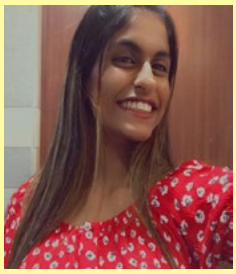


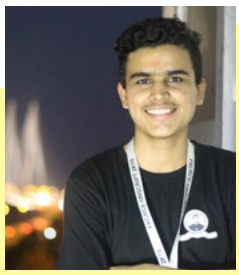
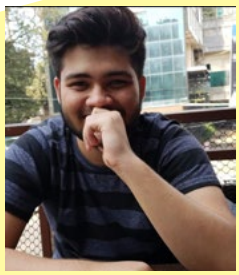


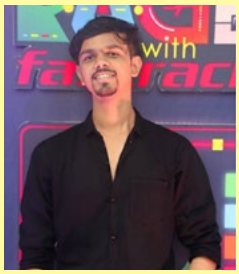


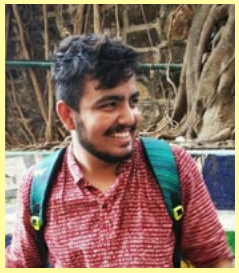


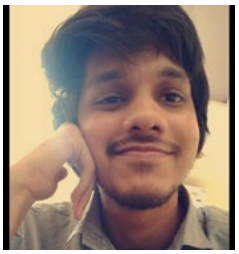
TE IT





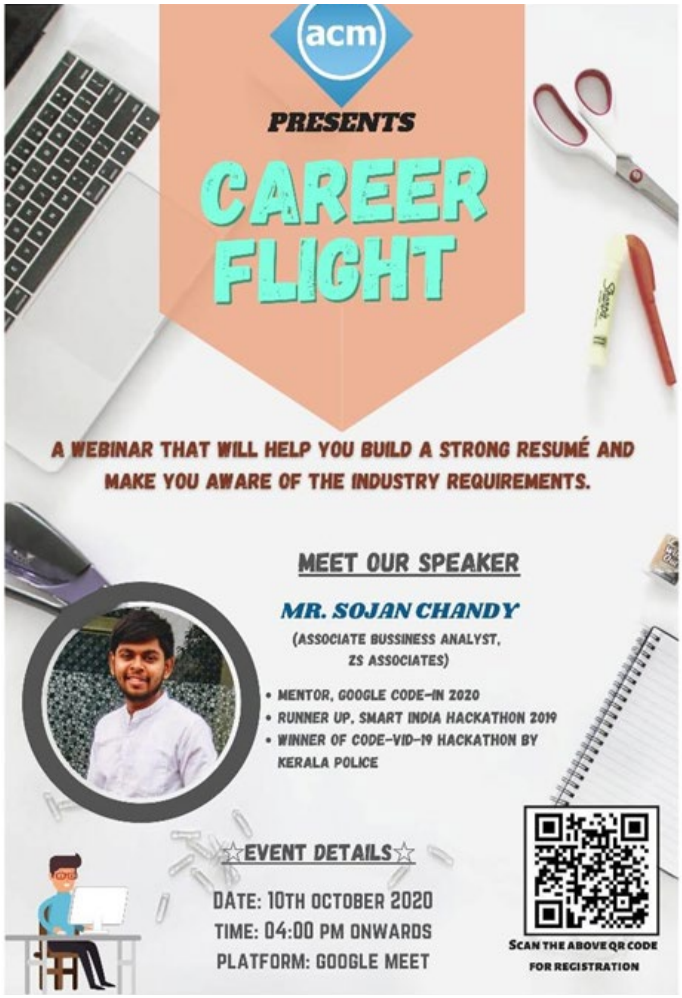


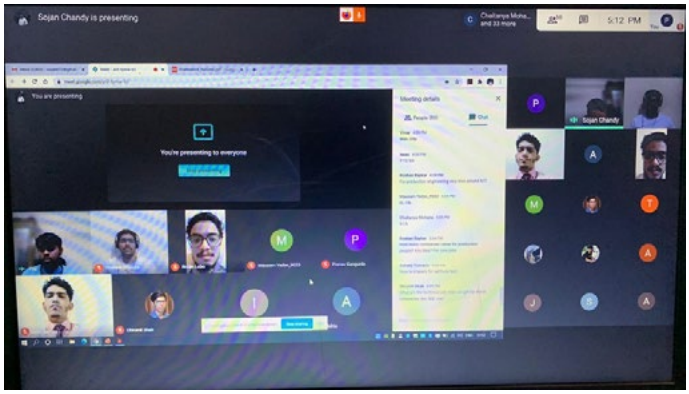


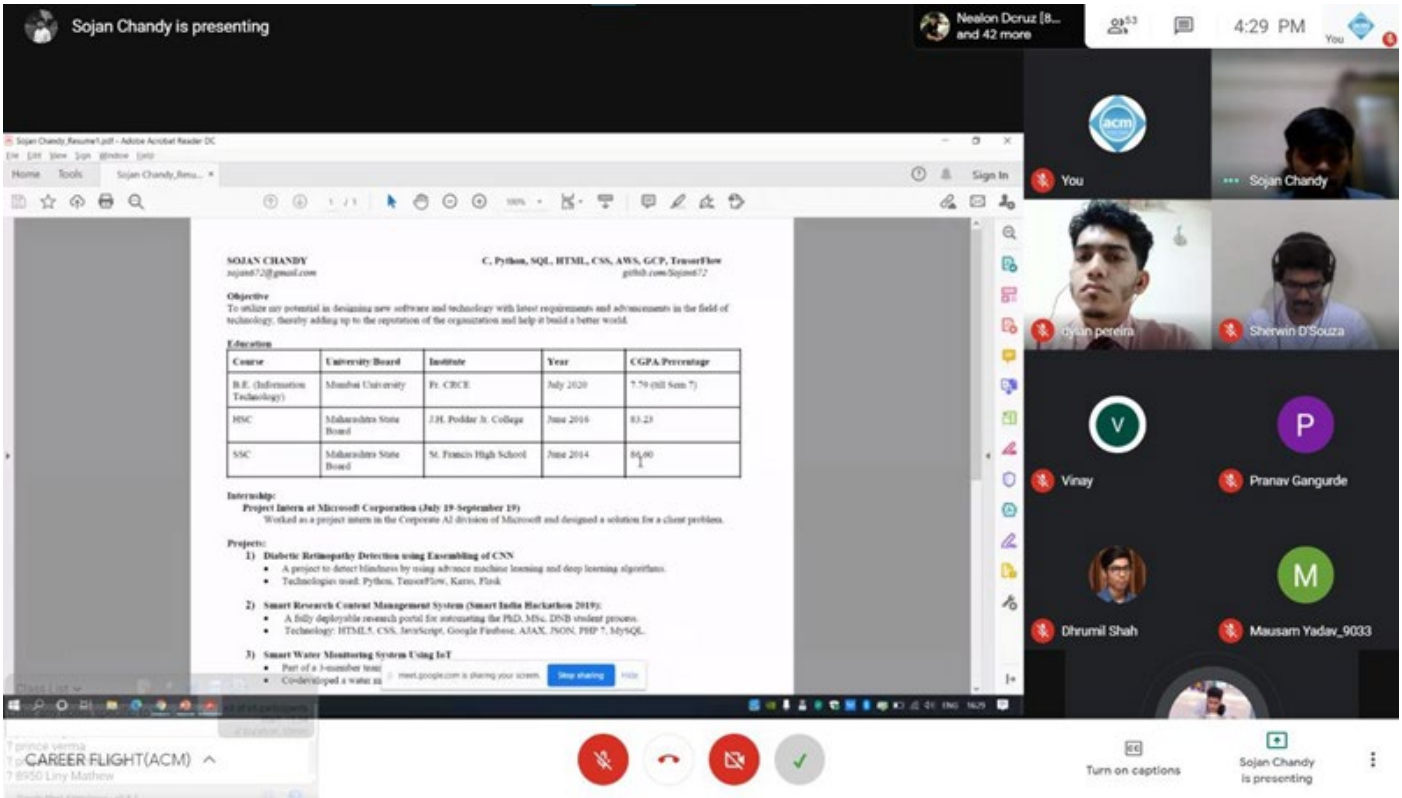
DEPARTMENT EVENTS

Sr. No.	Event Name	Date	No. of participants	Venue
1.	Carrier Flight	10 October, 2020	70	Google Meet
2.	My Story- A Motivational Session by Mr. Gaurav Sen	5 November 2020	100	Google Meet
3.	UnScript Rookie's Hackathon 2k20	21-22 November 2020	120	Devfolio
4.	Get Hired- A complete walk through hiring process	3 March 2021	100	Zoom
5.	Business Modelling and Plan Development	6 April 2021	65	Google Meet

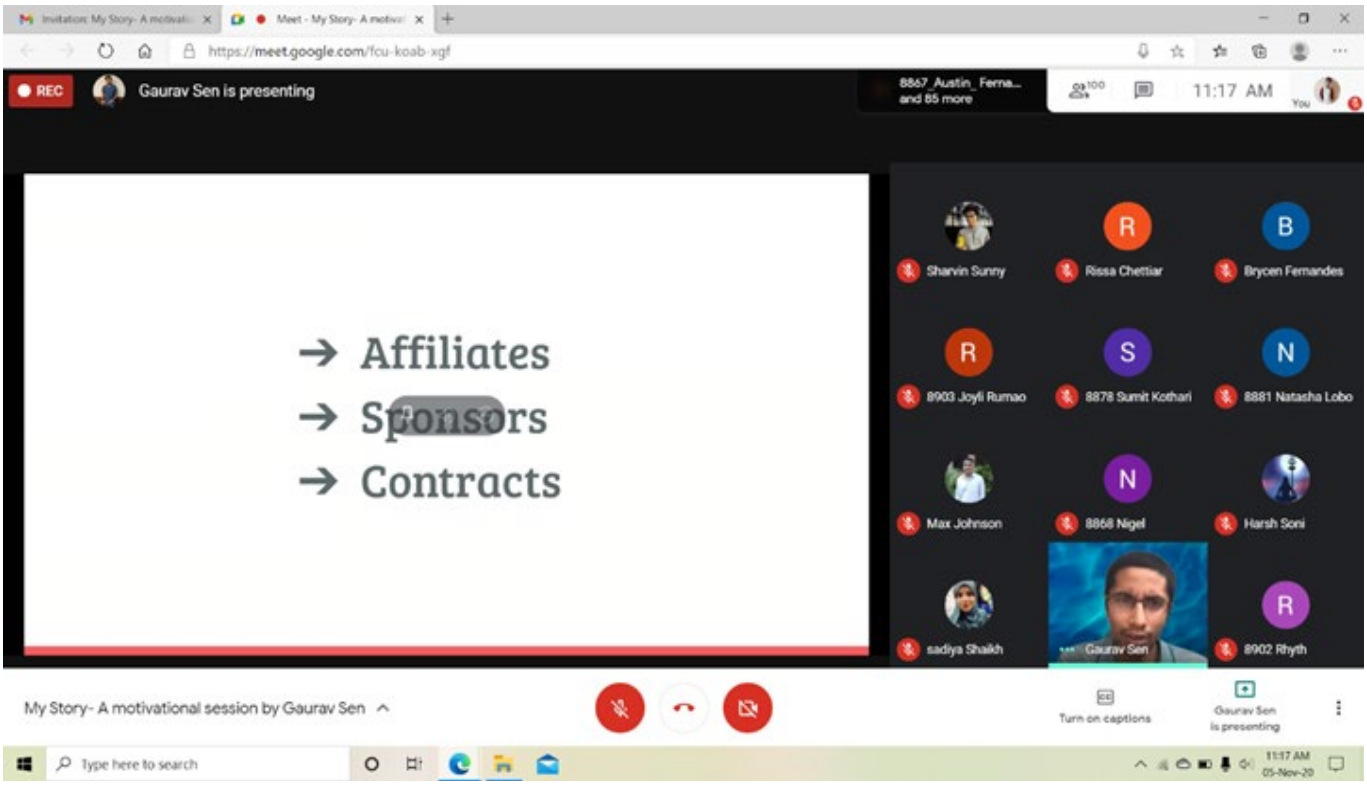
Career Flight

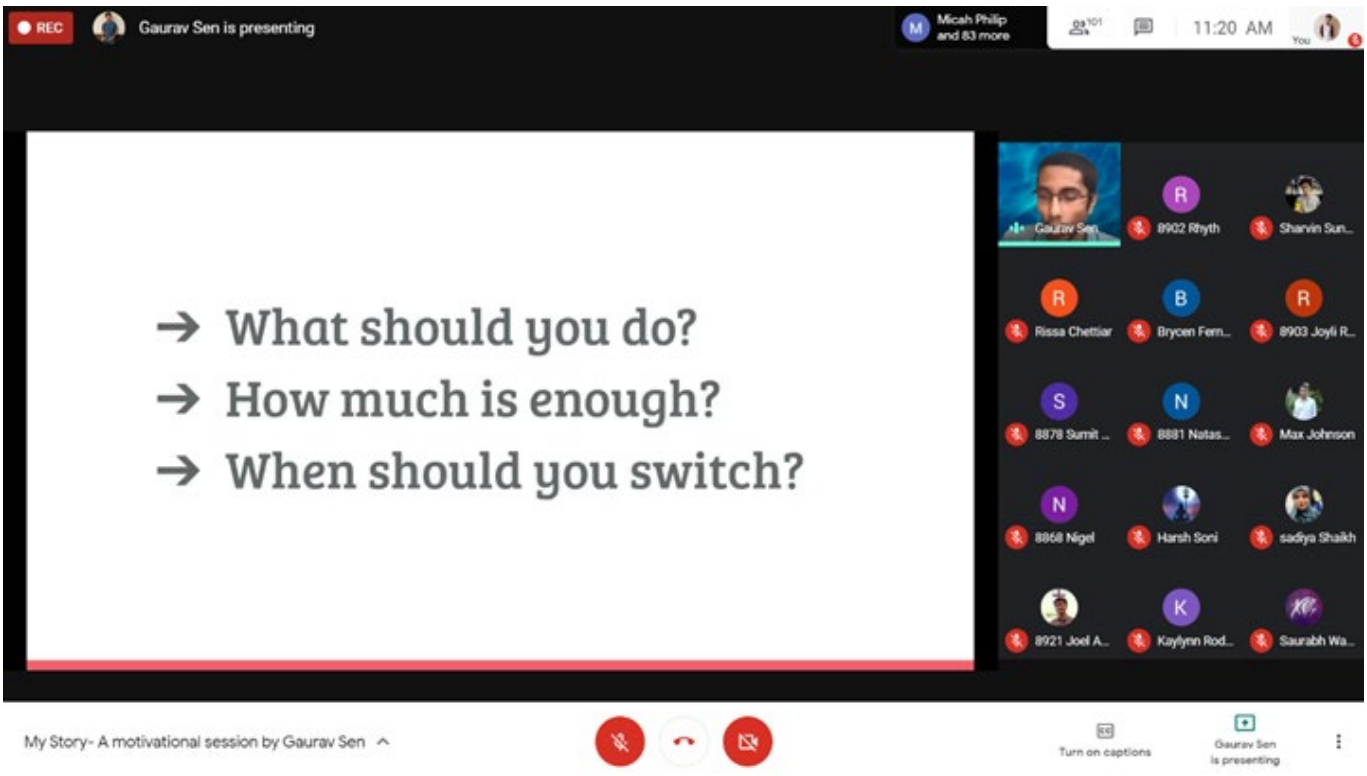


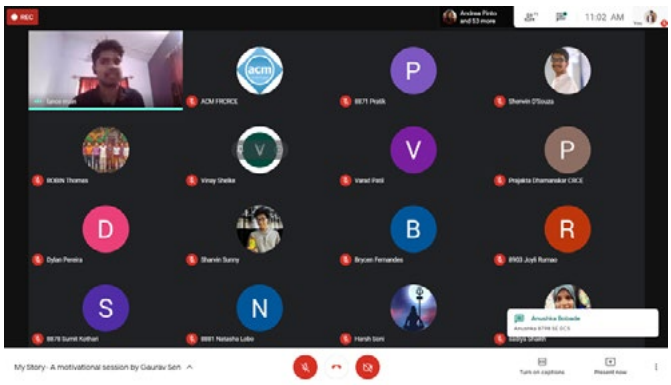


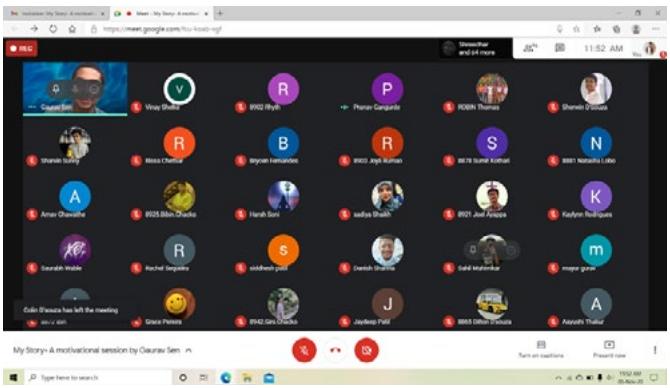


My Story - Motivational Session by Mr. Gaurav Sen

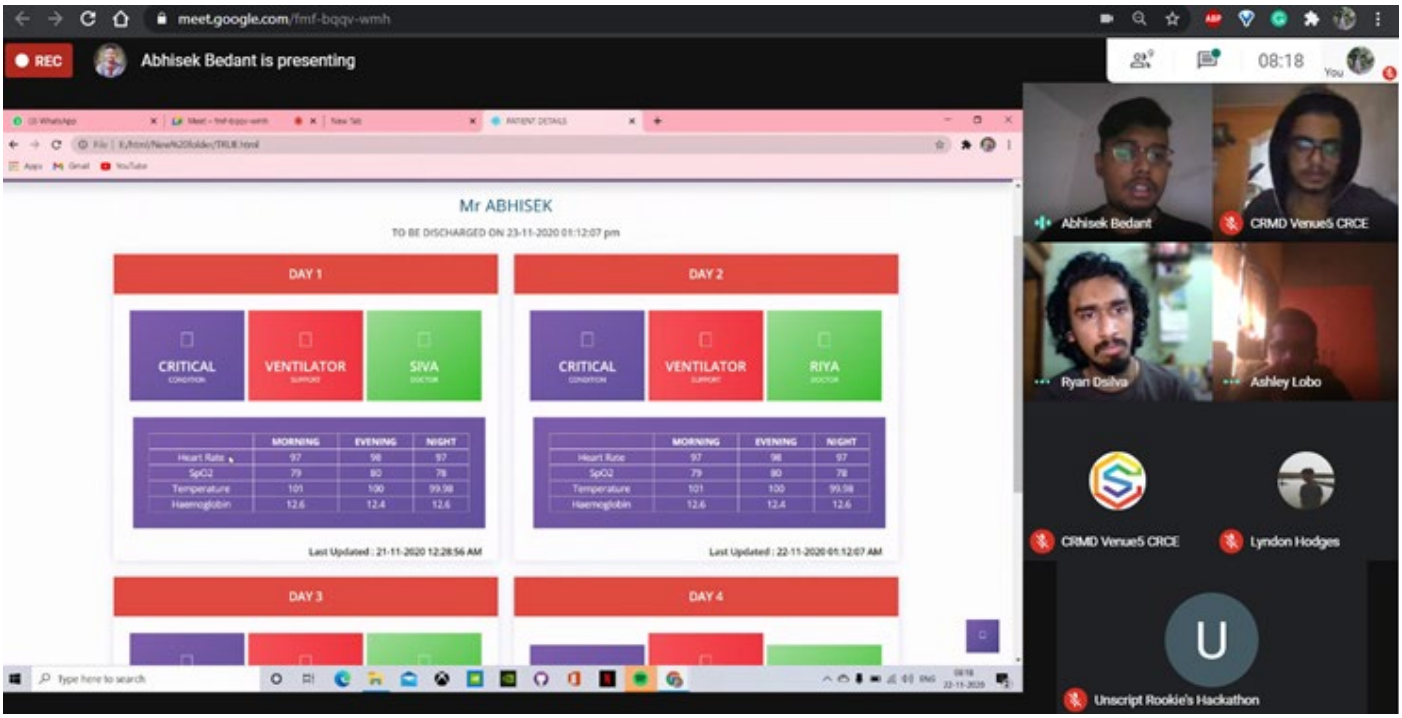


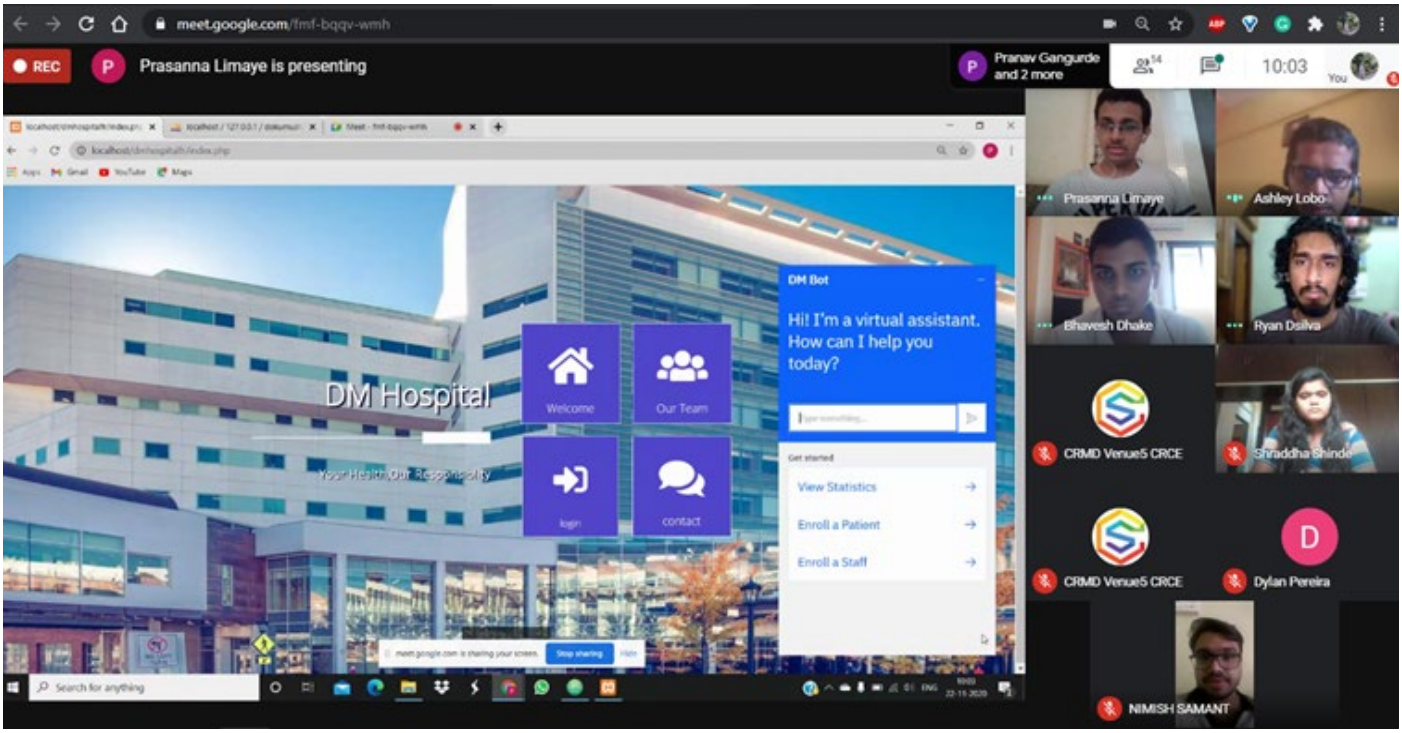




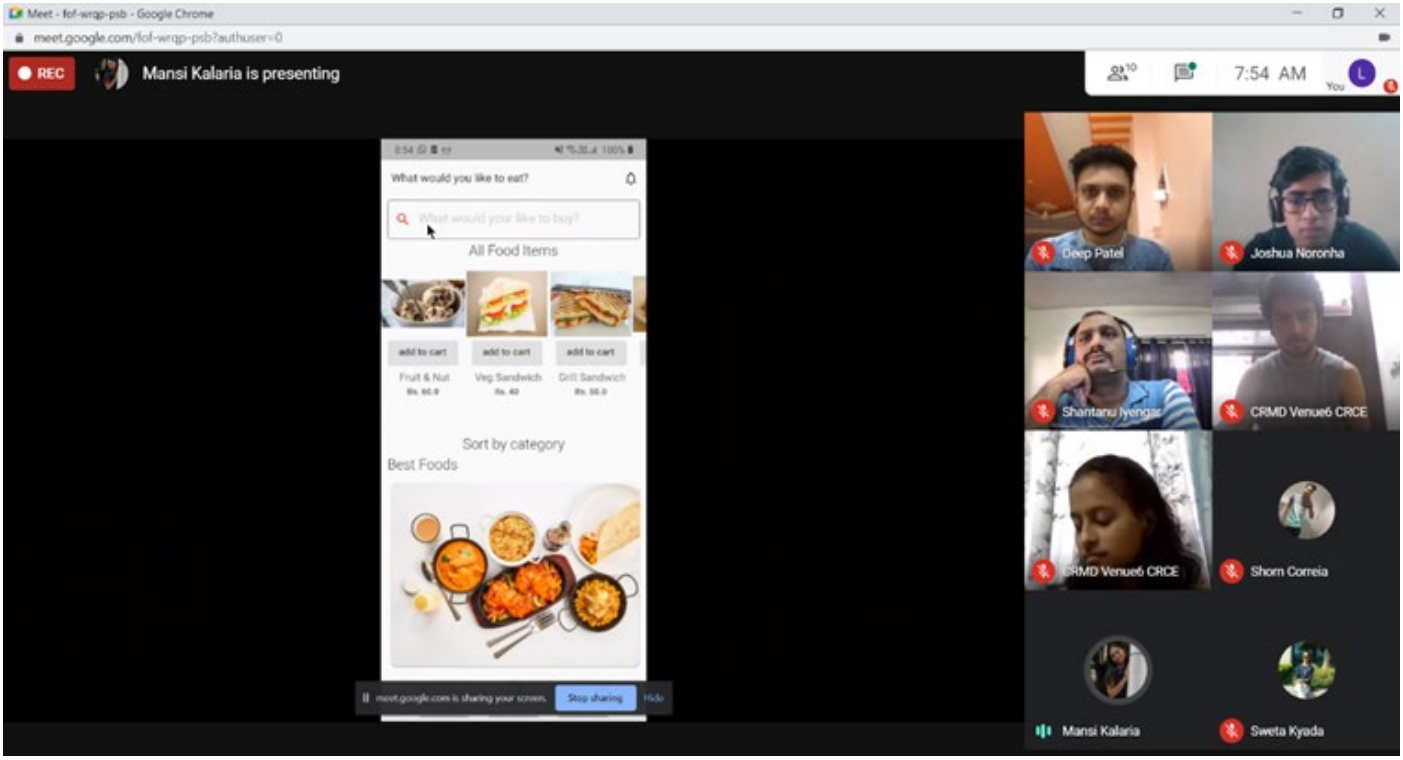


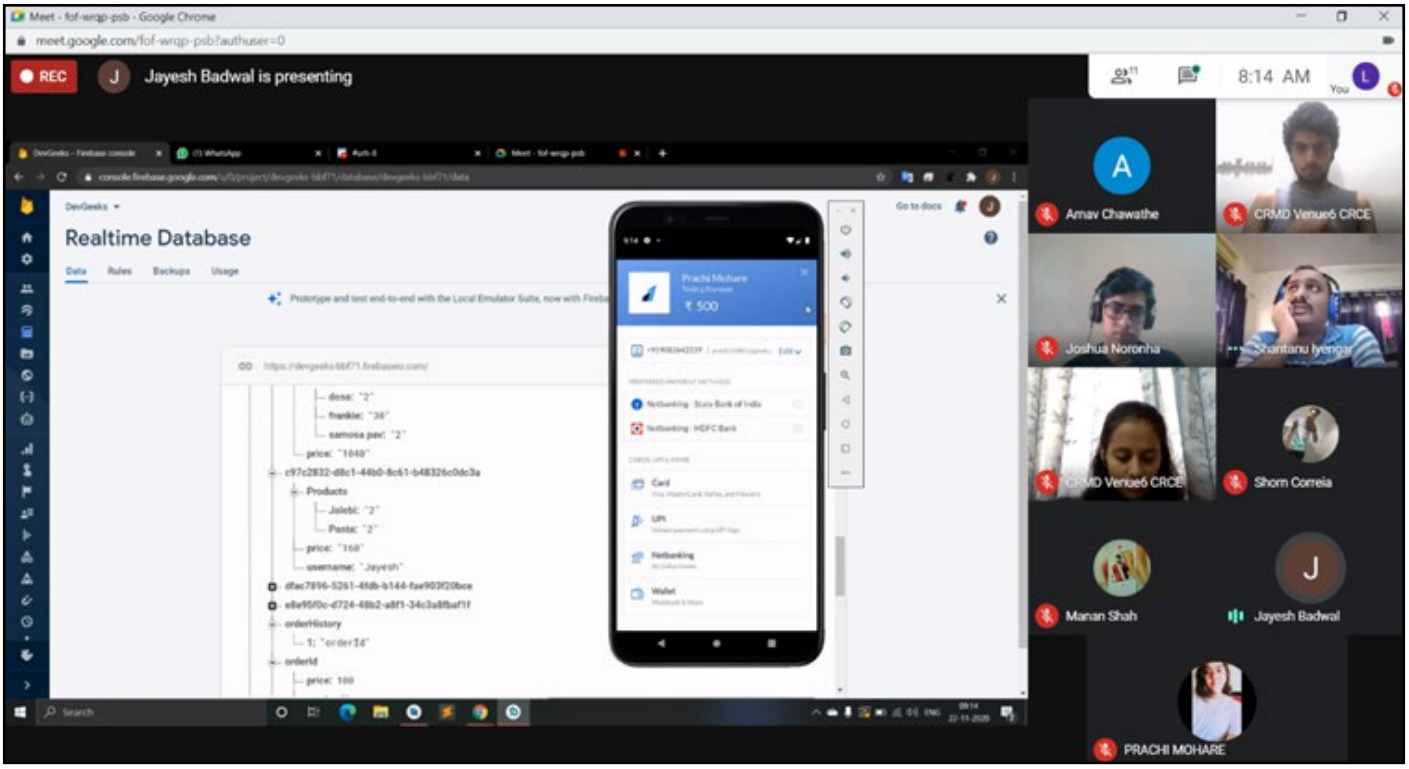
UnScript Rookie's Hackathon





Get Hired - Kickstart for Off-Campus Interviews with Kushdeep Mittal



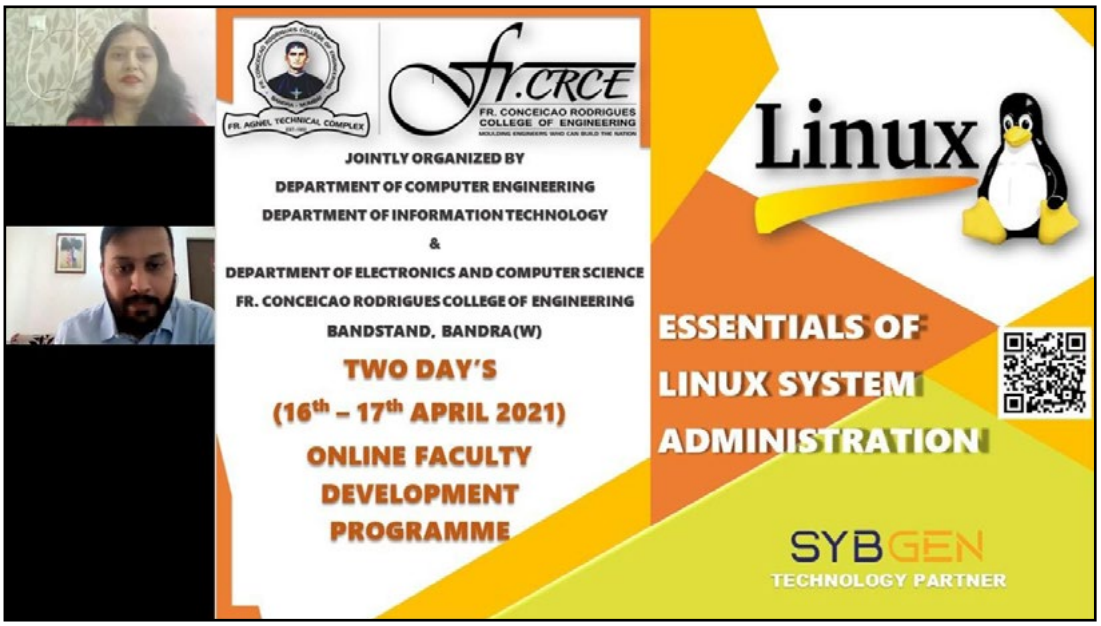


CONVOCATION CEREMONY FOR THE (19-20) BATCH

The Certificate Distribution Ceremony at our institute for Information Technology was scheduled on 19th of March 2021 in the College premises. The ceremony was held in two different slots following the Covid norms.

FACULTY DEVELOPMENT PROGRAM

The Information Technology department in association with Computer Engineering and ECS department organized 2 days online faculty development program on Essentials of Linux System Administration on 16th and 17th April 2021.



PLACEMENT STATISTICS

ROLL NO.	NAME OF THE STUDENT	OFFER NO. 1	OFFER NO. 2	OFFER NO. 3	OFFER NO. 4	TOTAL OFFERS
8377	ALMEIDA AARON CHARLES ARTHUR	Oracle financial services				1
8380	CHENDEKAR TEJAS PRASAD	ICICI Lombard				1
8381	CHHAJED PUSHPAK AAKESH	Oostelijke Onderneming LLP	GEP	ICICI Lombard		3
8383	DASSAN HARKIRAT SINGH	Jaro Education	GEP	TCS Ninja	Cognizant	4
8385	DSOUZA DYLAN PAUL	Oracle financial services	Quantiphi	Accenture		3
8386	DSOUZA REBECCA CHRISTOPHER	Capgemini	Accenture			2
8387	DSOUZA VIOLA VIVIAN	Accenture	TCS Ninja	Hexaware	Cognizant	4
8388	FEABA JOHNSON	Ugam Solutions				1
8390	GAUREA JOYSON NATHAEL	Capgemini	TCS Ninja			2
8391	GAWDE CHINMAY ULHAS	Xoriant	Accenture	Cognizant		3
8392	GHASKADVI MEERA SUNIL	Jaro Education	Oracle financial services	Accenture		3
8396	IYENGAR ABHIRAM RAVINDRA	TCS Ninja				1

8400	KADAM SAMRUDDHI SUDHIR	Capgemini	Accenture			2
8402	KHOCHARE SAKSHI SHAILESH	Capgemini	Accenture	TCS Ninja	Cognizant	4
8403	LOBO RACHAEL VALERIAN	Capgemini	TCS Njnja			2
8408	MACHADO KAREN FELIX	Capgemini	Accenture	TCS Ninja	Cognizant	4
8412	NAIK SHUBHAM SANJIV	GEP				1
8413	NAIR AKSHAYE SATISH	Capgemini				1
8414	NISAL NACHIKET RAVINDRA	Jaro Education				1
8415	NORONHA SUJIT STEPHEN	Capgemini	Quantiphi			2
8416	PALANI ETHAN JOEL VINCENT	Xoriant	TIAA	TCS Ninja	Accenture	4
8418	PATIL PRACHIT DILEEP	Quantiphi				1
8419	PINTO FRANKY MATHEW	UBS				1
8420	PRASAD NITESH SANJAY	UBS				1
8421	PULIKKOTTIL JESWIN THOMAS	Capgemini	Cognizant			2
8422	REBELLO KENNETH GABRIEL OSWALD	Xoriant	Quantiphi			2
8426	SANCTIS ISAAC MAXIM	Jio	TCS Ninja	ICICI Lombard		3

8428	SHAH JAINI JOBAN	Oracle financial services				1
8429	SHAH RASHI HITEN	Capgemini	Accenture	TCS Ninja	Cognizant	4
8430	SHARMA NIDHI SANJAY	Capgemini	Accenture	TCS Ninja		3
8431	SHETTY PRARTHANA GANESH	Capgemini	Accenture	TCS Ninja	Cognizant	4
8435	THAKURDESAI SHALVA ANAND	UBS				1
8437	TUSCANO SELVIN CHARLES	TCS Ninja				1
8438	VAIDYA ROHIN MANISH	Oracle financial services	Accenture			2
8439	BHAT BHARGAV SANTOSH					0
8440	YADAV SHIVAM MANOJKUMAR	Oracle financial services	Accenture			2
8480	ADITYA ALEXANDER JOB	Quantiphi				1
8487	MAHINDRAKAR SHEFALI VINOD	Ugam Solutions				1
8491	VIRA SHUBHAM DHIREN	Capgemini	UBS			2

Total Selects	**38**
No. of students going for higher studies	**17**

INTERNSHIPS

Pushpak Chhajed	Eastern Enterprise	Aug 2020 - Mar 2021	SDE intern
Keenaj Mevada	Grishma Health Foods Pvt. Ltd.	Aug 2020 - Sept 2020	Team leader
Nitesh Prasad	UBS	June 2020- Aug2020	Summer Intern
Franky Pinto	UBS	July 2020 - Aug 2020	Summer Intern
Selvin Tuscano	Verzeo	June2020 - August 2020	Data Analysis
Nidhi sharma	Blue whale consulting and technologies	July 2020- Sept 2020	IT intern
Keenaj Mevada	Climate Action Guide - Berkeley Skydeck, CA, USA	May 2020 - Aug 2020	SDE intern
Gouri Avadhoot Kanitkar	FIGmd (Pune) Pvt Ltd	May 2020 - Jan 2021	QA Intern
Gouri Avadhoot Kanitkar	SavySoft (Pune) Pvt Ltd	Jan 2021 - Current	QA Intern
Joyson Gaurea	Grishma Health Foods Pvt. Ltd.	Aug 2020 - Sept 2020	Team mentor
Harsh Singhania	Vodafone Idea Pvt. Ltd.	July 2020 - Aug 2020	Intern

Harsh Singhania	Cancer Patients Aid Association	Oct 2020- Dec 2020	DA Intern
Selvin Tuscano	Verzeo	sep2020-nov2020	web dev intern
Samruddhi Kadam	BPCL	June2020 - August 2020	Summer Intern
Clint Dmello	Swabhav Tech labs	july2020-August2020	core java intern
Shalva Thakurdesai	UBS	July 2020- Aug2020	Summer Intern
Shubham Vira	Sriracha Partners LLC, USA	June2020 - August 2020	Intern
Tejas Chendekar	Girshma Foods	August 2020 - September 2020	Intern
Tejas Chendekar	GMAC Intelligence LLP	October 2020 - current	AI/ML Intern
Tejas Chendekar	Madras Scientific Research Foundation	November 2020 - December 2020	Project Manager
Shefali Mahindrakar	Schneider Electric	June 2020 - October 2020	Android Developer
Shefali Mahindrakar	Grishma Foods	August 2020 - September 2020	Intern
Rachael Lobo	Revolux Solutions Pvt Ltd.	May 2020- Aug 2020	Software Testing Intern
Ethan Palani	Shoprox Technologies	September '20 - November '20	Backend Developer Intern
Chinmay Gawde	Solruf India Private Limited	March 2021 - Ongoing	Full Stack Development Intern
Rincy Pereira	Aerosoft Corp	July 20- Aug 2020	Web development intern

Meera Ghaskadvi	M76 Analytics	Feb 2021- March 2021	Business Analysis intern
Shubham Sanjiv Naik	Zoho Corporation Pvt Ltd (India)	08-Feb 2021 to 31-May 2021	Project Trainee Android Kotlin Developer (Internship)
Isaac Sanctis	Vicara (Crio Winter of Doing)	26th Feb - Present	Developer
Pushpak Chhajed	Clearglass	Apr 2021 - PRESENT	SDE trainee
Sanil Rodrigues	NameError	Oct 2020- Dec 2020	Data Scientist
Smith dabrei	Sparks Foundation	April 2021-present	data scientist
Abdullah khan	The sparks foundation	feb2021-march2021	web development intern
Prarthana Shetty	CeX Webuy Entertainment Pvt. Ltd.	Dec 2020-June 2021	Software Testing Intern
Alex Solanki	The sparks foundation	Feb 2021 - March 2021	Web Development Intern
Ethan Palani	Shoprox Technologies	Feb 2021 - Present	Full Stack Developer
Harkirat Dassan	Deloitte	July 2020-august 2020	Technology consulting virtual internship
Nimisha Bhoir	METINFOS	March 2021 - Ongoing	Web Developer Intern
Nachiket Nisal	BeerBiceps Media World PVt Ltd	Feb21 -May21	Intern

Sonali Joshi	Widhya	Jan 2021 - Feb 2021	Front End
Sameeksha Rane	Web Student Pvt Ltd	February 2021-March 2021	Web Developer
Dhrumil Shah	Cloud Counselage	March,June & July 2020	Full Stack Web Developer
Varad Patil	Hackplanet Technologies Pvt Ltd	July 2020 - Sept 2020	Full Stack Web Developer
Mareena Fernandes	Mr. Moustache's Cakes	Dec 2020 - Jan 2021	Graphic Designer
Mareena Fernandes	The Habibi Project	April 2021 - July 2021	Graphic Designer
Yash Sankpal	StakeNation	29 Sept 2020 - 7 Nov 2020	Full Stack Web Developer
Sijoy Almeida	National Institute of Hospitality Management	October 2020 - Jan 2021	Intern
Sonali Joshi	The Sparks foundation	1 Oct 20 - 1 Nov 2020	Data Science and Analytics

COURSES ATTENDED

Name	Course Title	Start Date	End Date	Organized by
Keenaj Mevada	Python and Statistics for Financial Analysis	Nov '20	Dec '20	HKU - Coursera
Crystal Dsouza	Introduction to DevOps and Site Reliability Engineering	March 2021	April2021	Linux foundation
Jeswin Thomas	Foundations of User Experience (UX) Design	March 2021	April 2021	Google - Coursera
Nitesh Prasad	Crio Winter of Doing	January 2021	February 2021	CRIO
Feaba Johnson	Introduction to DevOps and Site Reliability Engineering	April 2021	April 2021	Linux foundation
Joslin Jose	Introduction to Devops and Site Reliability Engineering	April 2021	April 2021	Linux foundation
Viola Dsouza	Introduction to Devops and Site Reliability Engineering	April 2021	April 2021	Linux foundation
Aditya Alexander Job	Introduction to Devops and Site Reliability Engineering	April 2021	April 2021	Linux foundation

Aditya Alexander Job	Python for Everybody Specialization	March 2020	June 2020	University of Michigan - Coursera
Aditya Alexander Job	Computer Vision - Object Detection with OpenCV and Python	May 2020	May 2020	Rhyme - Coursera
Aditya Alexander Job	Computer Vision - Object Tracking with OpenCV and Python	May 2020	May 2020	Rhyme - Coursera
Aditya Alexander Job	Computer Vision - Image Basics with OpenCV and Python	May 2020	May 2020	Rhyme - Coursera
Aaron Colaco	Cyber Security Analyst	April 2020	Oct 2020	Institute of Information Security
Brian Dias	Data Science	May 2020	June 2020	Coursera
Brian Dias	Fundamentals of Project Planning and Management	March 2021	April 2021	Coursera
Rebecca Dsouza	Introduction to DevOps and Site Reliability Engineering	April 2021	April2021	Linux foundation
simran lopes	data visualization	Feb2021	Feb2021	workshop
simran lopes	Introduction to DevOps and Site Reliability Engineering	April 2021	April2021	Linux foundation
Lokesh Pandita	The Complete R Programming for Data Science - 7 courses in 1	March 2021	June 2021	Udemy
Lokesh Pandita	Introduction to Devops and Site Reliability Engineering	April 2021	April 2021	Linux Foundation
Anoushka Christopher	Web Development Package	March 2020	May 2020	Udemy

Anoushka Christopher	Introduction to Big Data	May 2020	June 2020	Coursera
Harkirat Dassan	Business Technology Management-6 course specialization	March 2020	June 2020	Indian school of business(ISB)
Aaron Almeida	Learn Linux in 5 days	May 2020	June 2020	Udemy
Aaron Almeida	Programming for Everybody(Getting started with Python)	June 2020	July 2020	Coursera
Harkirat Dassan	Data Science with Python Course	June 2020	July 2020	Solo Learn
Harkirat Dassan	Machine Learning course	June 2020	July 2020	Solo Learn
Pushpak Chhajed	AWS Fundamentals: Building Serverless Applications	April 1, 2020	May 1, 2020	Coursera
Pushpak Chhajed	AWS Fundamentals: Going Cloud-Native	March 2020	Apr 2020	Coursera
Chinmay Gawde	Programming for Everybody (Getting started with Python)	March 2020	Apr 2020	Coursera
Chinmay Gawde	Python Data Structures	March 2020	Apr 2020	Coursera
Chinmay Gawde	Introduction to DevOps and Site Reliability Engineering	April 2021		
Jeswin Thomas	Introduction to Data Science	May 2020	June 2020	Coursera
Abhiram Iyengar	AWS fundamentals: Going cloud native	May 2020	June 2020	Coursera
Abhiram Iyengar	Business metrics for data driven companies	May 2020	June 2020	Coursera

Abhiram Iyengar	Introduction to DevOps and Site Reliability Engineering	April 2021		Linux Foundation
Aaron Almeida	Introduction to DevOps and Site Reliability Engineering	April 2021		Linux Foundation
Rashi Shah	Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning	April 2020	May 2020	Coursera
Veena Gaurea	Python for Everybody Specialization	July 2020	Sptember 2020	Coursera
Rashi Shah	Deep Learning Prerequisites: The Numpy Stack in Python (V2+)	May2020	May 2020	Udemy
Priya Tanwar	Introduction to Tenserflow for AI, ML and Deep Learning	April 2020	May 2020	Coursera
Veena Gaurea	Google IT Support Specialization	Sept 2020	Sept 2020	Coursera
Priya Tanwar	AWS Fundamentals: Going Cloud-Native	April 2020	May 2020	Coursera
Priya Tanwar	AWS Fundamentals: Building Serverless Applications	April 2020	May 2020	Coursera
Veena Gaurea	Google Cloud Platform Fundamentals for AWS Professionals	May 2020	May 2020	Coursera
Veena Gaurea	Introduction to Artificial Intelligence (AI)	August 2020	August 2020	Coursera
Preet Jain	AWS Fundamentals: Going Cloud Native	May 2020	May 2020	Coursera

Preet Jain	AWS Fundamentals: Addressing Security Risk	May 2020	May 2020	Coursera
Preet Jain	AWS Fundamentals: Migrating to the Cloud	May 2020	May 2020	Coursera
Preet Jain	AWS Fundamentals: Building Serverless Applications	May 2020	May 2020	Coursera
Preet Jain	AWS Fundamentals: Specialization	May 2020	May 2020	Coursera
Jeneya Rumao	AWS Foundations: Machine Learning Basics	sept 2020	sept 2020	AWS training & certifications
Jeneya Rumao	AWS Fundamentals: Going Cloud native	sept 2020	Oct 2020	Coursera
Jeneya Rumao	Web Development	May 2020	July 2020	Coursera
Roger Fernando	AWS Fundamentals: Going Cloud native	May 2020	May 2020	Coursera
Jaini Shah	Neural network and deep learning	April 2020	April 2020	Coursera
Jaini Shah	Excel skill for business intelligence	May 2020	June 2020	Coursera
Harsh Singhania	Neural network and deep learning	April 2020	April 2020	Coursera
Harsh Singhania	Excel skill for business intelligence	May 2020	June 2020	Cousera
Harsh Singhania	AJAX-XML Crash Course	May 2020	May 2020	Udemy
Jaini Shah	Crash Course on AJAX-XML	May 2020	May 2020	Udemy

Samruddhi Kadam	Neural networks and deep learning	July 2020	July 2020	Coursera
Sweedal Masih	Introduction to DevOps and Site Reliability Engineering	April 2021	April 2021	Linux Foundation
Nimisha Bhoir	Introduction to DevOps and Site Reliability Engineering	April 2021	April 2021	Linux Foundation
Nimisha Bhoir	The Complete 2021 Web Development Course Build 15 Projects	April 2021	June 2021	Udemy
Nimisha Bhoir	Complete Python Programming 2020 :Beginner to Advanced	April 2020	May 2020	Udemy
Nimisha Bhoir	Python for Everybody	June 2020	July 2020	Coursera
Nimisha Bhoir	Python Basics for Data Science	February 2021	March 2021	edX
Crystal Dsouza	Python on Backend	May2020	May2020	Udemy
Robin Lobo	Python3: Beginner to Advance			Udemy
Sameeksha Rane	AI chatbots			edX

FACULTY CONTRIBUTION

Faculty as Resource person

Faculty Name	College Name	Date	Topic
Dr. Jagruti Save	School of Computer Science and engineering, REVA University	17/02/2021	Image Classification
Dr. Nilesh M. Patil	Vidyavardhini's College of Engineering and Technology, Vasai Road	07/04/2021	Demonstration of Gantt Chart using MSP (Microsoft Project)
Dr. Nilesh M. Patil	St. John College of Engineering and Management, Palghar	30/04/2021	Applications of Automata

Faculty Development Programs attended

FDP/STTP/ Orientation/ Workshop	Name of the Faculty	FDP/STTP/ Workshop Title of the Program	Organizing Institute	Duration	Date
STTP	Dr. Jagruti Save	Insights into Intelligent Automation, Machine Learning and Data Science : Data Science and Its Applications	Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri(W)	1 week	7/12/2020-19/12/2020
STTP	Prajakta Bhangale	AI in healthcare	KJSIT,Sion	1 week	14/12/2020 to 19/12/2020
STTP	Dr. Nilesh Patil	Natural Language Processing & Deep Learning	Vidyavardhin's College of Engineering and Technology, Vasai Road	1 week	22/06/2020 to 26/06/2020
STTP	Dr. Nilesh Patil	Natural Language Processing	Manipal Institute of Technology, MAHE, Manipal, Karnataka.	1 week	16/11/2020 to 21/11/2020
STTP	Dr. Nilesh Patil	Leveraging Artificial Intelligence and Data Analytics for Healthcare	KJSIEIT, SION	1 week	4/01/2021 to 9/01/2021
STTP	Dr. Nilesh Patil	Understanding BlockChain Technology and its Applications	SAL College Of Engineering, Gujarat	1 Week	15/02/2021 to 19/02/2021
Webinar/ Workshop	Dr. Nilesh Patil	Hands-on Machine Learning with Python	Sal Engineering & Technical Institute	2 days	23/02/2021 to 24/02/2021

FDP	Dr. Nilesh Patil	Modern Cryptography, Blockchain & IoT Security: Challenges, Solution and Future Prospects (MCB-IoTs)-2021	Rajiv Gandhi Proudyogiki Vishwavidyala, Bhopal	1 Week	23/03/2021 to 27/03/2021
Webinar	Garima Tripathi	Essentials for setting up AI/ Datascience Lab	Department of CS,Bennett University, Greater Noida	1 day	17/07/20
FDP	Garima Tripathi	Academic Transformation with secrets of Empowerment	RJIT,Andheri	3 days	23/07/20-25/07/20
Webinar	Garima Tripathi	Internet of Things	KJSIEIT, SION	1 day	19/07/20
Webinar	Garima Tripathi	Cyber Security	KJSIEIT, SION	1 day	14/07/20
Webinar	Garima Tripathi	Quantum Computing	KJSIEIT, SION	1 day	16/07/20
Webinar	Garima Tripathi	Education Policy	Fr.C.R.C.E	1 day	02-01-21
Webinar	Garima Tripathi	"National Innovation and Startup Policy - NISP"	Fr.C.R.C.E	1 day	06-01-21
STTP	Unik Lokhande	Natural Language Processing	Manipal Institute of Technology, MAHE, Manipal, Karnataka.	1 week	14/12/2020 - 19/12/2020
STTP	Prajakta Mandar Dhamanskar	Leveraging Artificial Intelligence and Data Analytics for Healthcare	KJSIEIT, SION	1 week	4/01/2021 to 9/01/2021
STTP	Sarika Davare	Leveraging Artificial Intelligence and Data Analytics for Healthcare	KJSIEIT, SION	1 week	4/01/2021 to 9/01/2021

Certification	Unik Lokhande	Introduction to IoT	Cisco Networking Academy	20 Hours	12-03-2021
FDP	Unik Lokhande	Technology Enabled Learning & Life Long Self Learning	NPTEL	8 Weeks	
STTP	Prachi Patil	Disruptive Technologies of Industry 4.0”	Fr. CRCE	1 Week	30th May 2020 to 3rd June 2020
Workshop	Prachi Patil	Regional Orientation Workshop for Participating Institutes (PIs) of Unnat Bharat Abhiyan (UBA)	IIT B	1 Day	13th March 2021
Panel Discussion	Prachi Patil	how to equip yourself for higher studies	Fr. CRCE	1 Day	19th November 2020
Panel Discussion	Prachi Patil	Explore the startup dream: plan to execution	Fr. CRCE	1 Day	20th November 2020
Webinar	Prachi Patil	Goal-based Financial Planning and Investing	Fr. CRCE	1 Day	19th March 2021
certification / QIP / FDP	Vaibhav Godbole	Big Data Engineering with Hadoop and Spark (Compatible with: CCP Data Engineer, CCA Spark and Hadoop Developer, HDP Certified Developer, HDP Certified Developer: Spark)	E & ICT Academy, IIT Roorkee in colaboration with Cloudx Lab	60 hours	5th June - 4th September, 2020
FDP	Vaibhav Godbole	DATA SCIENCE: TECHNIQUES & TOOLS	MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR	2 days	June 20-21, 2020

Webinar	Vaibhav Godbole	COVID-19: Efficiency vs Resilience	ACM	1 day	October 14, 2020
Webinar	Vaibhav Godbole	Education: "Repetition and Recursion"	ACM	1 day	August, 29, 2020
Webinar	Vaibhav Godbole	Education: "Blockchain-enabled DESy Skill Chain for De-centralized Education System"	ACM	1 day	September, 12, 2020
Webinar	Vaibhav Godbole	How to Create Generalizable AI	ACM	1 day	August 11, 2020
Webinar	Vaibhav Godbole	Testing AI Applications	ACM	1 day	August 4, 2020
Webinar	Vaibhav Godbole	Education: "Transitioning from Physical Classrooms to Online Instruction	ACM	1 day	August 1, 2020
Webinar	Vaibhav Godbole	Education: "Computational Thinking in the Mathematics Classroom"	ACM	1 daty	July, 25, 2020
Webinar	Vaibhav Godbole	End to End Testing of AI Systems: Putting Quality Assurance Centrestage to Avoid AI Accidents	ACM	1 day	July 18, 2020
Webinar	Vaibhav Godbole	Apache Arrow and the Future of Data Frame	ACM	1 day	Juy 8, 2020
Webinar	Vaibhav Godbole	Education: Computer Science Unplugged and Computational Thinking - What's the Big Picture?	ACM	1 day	June 27, 2020
Webinar	Vaibhav Godbole	Education Policy	Fr.C.R.C.E	1 day	02-01-21

Certification / QIP / FDP	Saurabh Kulkarni	Big Data Engineering with Hadoop and Spark (Compatible with: CCP Data Engineer, CCA Spark and Hadoop Developer, HDP Certified Developer, HDP Certified Developer: Spark)	E & ICT Academy, IIT Roorkee in colaboration with Cloudx Lab	60 hours	5th June - 4th September, 2020
FDP	Saurabh Kulkarni	DATA SCIENCE: TECHNIQUES & TOOLS	MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR	2 days	June 20-21, 2020
Webinar	Saurabh Kulkarni	Essentials for setting up AI/ Datascience Lab	Department of CS,Bennett University, Greater Noida	1 day	July 17,2020
Webinar	Saurabh Kulkarni	COVID-19: Efficiency vs Resilience	ACM	1 day	October 14, 2020
Webinar	Saurabh Kulkarni	Education: "Repetition and Recursion"	ACM	1 day	August, 29, 2020
Webinar	Saurabh Kulkarni	Education: "Blockchain-enabled DESy Skill Chain for De-centralized Education System"		1 day	September, 12, 2020
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Webinar	Saurabh Kulkarni	Education: "Transitioning from Physical Classrooms to Online Instruction	ACM	1 day	August 1, 2020

Webinar	Saurabh Kulkarni	Education: "Computational Thinking in the Mathematics Classroom"	ACM	1 daty	July, 25, 2020
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Webinar	Saurabh Kulkarni	Education: Computer Science Unplugged and Computational Thinking - What's the Big Picture?	ACM	1 day	June 27, 2020
Webinar	Saurabh Kulkarni	Scientific Writings for Journals	Springer nature and VTU	1 day	September 30,2020
Webinar	Saurabh Kulkarni	Education Policy	Fr.C.R.C.E	1 day	01-02-21
Udemy Course 476 lectures(29 Hours)	Kranti Wagle	Data Science Course :Complete Data Science BootCamp	Udemy	29 Hours	Jan -April 2021

Publication Details (Year 2020-21)

Paper Title: **Driver Activity monitoring using Mobilenets**

Authors: Garima Tripath, Priyank Shah, Deval Srivas-tav, Saim Shaikh

Journal/Conference: Springer, ICICN 2020

Month & Year: Nov 2020

Details: Intelligent Computing and Networking,ISBN 978-981-15-7421-4

Paper Title: **FORESIGHTBOT: A chatbot for personal safety**

Authors: MayankTanna, Rohin Vaidya, JoysonGaurea, PriyaTanwar, SimrenBatra and Jagruti Save

Journal/Conference: PENSEE international journal, volume 51, issue 01, 2021

Month & Year: February 2021

Details: PENSEE international journal, volume 51, issue 01, 2021

Paper Title: **Context Aware Recommendation Systems: A review of the state of the art techniques**

Authors: Saurabh Kulkarni, Sunil F. Rodd

Journal/Conference: Computer Science Review

Month & Year: August 2020

Details: Elsevier, Vol. 37, ISSN- 1574-0137, pages- 100255

Paper Title: **"A REVIEW ON PREDICTION OF CANCER USING SUPERVISED AND UNSUPERVISED LEARNING TECHNIQUES"**

Authors: Davare Sarika, Dr. Debirupa Hore

Journal/Conference: An International Bilingual Peer Reviewed Refereed Research Journal

Month & Year: December 2020

Details: ISSN-2348-2397, Vol. 7, Issue 28, Page No: 185-189

Paper Title: **DROMMER: Drone with Jammer**

Authors: Mayank Tanna, Aditya Alexander Job, Nimisha Bhoir, Vaibhav Godbole, and Ajay Koli

Journal/Conference: PENSEE international journal, volume 50, issue 12, 2020

Month & Year: December 2020

Details: ISSN NO: 0031-4773, vol 50, issue12, pg no 443-448i

OPTIMISE YOUR CODE BY CACHING!

Technical Article
by Pushpak Chajed (BE IT)

Let's say you have a function that is a super-slow function. Now there is no way you can optimize the function, what you can do instead is that you can store results from a previous computation and reuse those results in a new computation to find solutions to other problem.

We'll implement finding n-th Fibonacci number problem We'll find out how much time it takes to compute the 40th Fibonacci number. and in the end, we'll make our code 400k times faster.

Let's get to code
Let's create the world's worst Fibonacci series computation code. The algorithm might look like this:

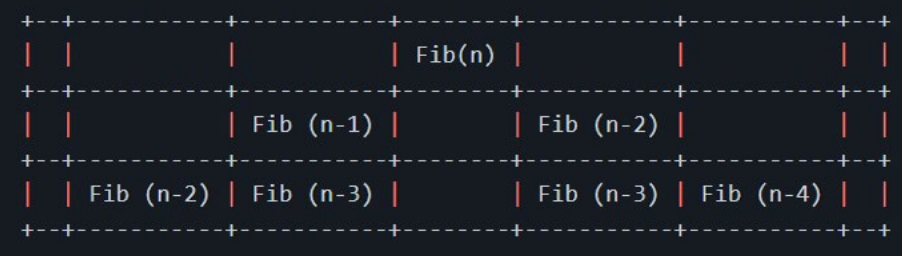
```
FIBONACCI (n):
    if n -> 0: f = 0
    elif n -> 1: f = 1
    else:
        f = FIBONACCI(n - 1) + FIBONACCI (n - 2)
    return f
```

This is a correct algorithm for fibonacci. But if you see the recurrence relation T(n) = T(n-1) + T(n-2) + O(1) you can see that the code is running in exponential time O(2^N) which is really really bad.

The equivalent python code would be:

```
def fibonacci(n):
    if n == 0:
        return 0
    elif n == 1:
        return 1
    else:
        return fibonacci(n - 1) + fibonacci(n - 2)
```

If you draw a recursion tree you can find that you are computing same computation over and over again in different trees. Let's see what I mean:



See for calculating fib(n) you are calculating Fib (n-1) and Fib (n-2). In a separate computation you are computing Fib (n-2) for that you are computing Fib (n-3) and Fib (n-4).

If you had Fib (n-2) from the previous computation stored, you wouldn't have to recompute that Fib (n-2) and its subsequent branches. So you would've saved a lot of time by just not recomputing anything.

Let's without caching how much time it would take to compute fib(40) that is 50th Fibonacci number:

```
import time

def fibonacci(n):
    if n == 0:
        return 0
    elif n == 1:
        return 1
    return fibonacci(n - 1) + fibonacci(n - 2)


start = time.perf_counter()
print(fibonacci(40))
end = time.perf_counter()

print(f"Computed in {(end - start) * 1000} ms")
```

Total time for computation is 40.635853995000005 seconds. So our python program is taking 40 seconds to compute fib(40). Now let's store intermediate step's data in a dictionary so that we can retrieve those data at a later time in constant time.

Creating a decorator

```
def cached(func):
    cache = dict()

    def caching(*args):
        if args in cache:
            return cache[args]
        result = func(*args)
        cache[args] = result
        return result

    return caching
```

Our cache storage stores unlimited data, but if your program has limited storage you can update the dictionary to hold the predefined amount of data and if one data is not used for long enough you can kick it out with pre-defined cache replacement policies.

Now with the cached decorator let's implement the fibonacci series code and see how much time it takes to find fib(40)

```
import time

@cached
def fibonacci(n):
    if n == 0:
        return 0
    elif n == 1:
        return 1
    return fibonacci(n - 1) + fibonacci(n - 2)


start = time.perf_counter()
print(fibonacci(40))
end = time.perf_counter()

print(f"Computed in {(end - start)} seconds")
```

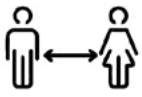
Now it takes around 8.945500000000217e-05 seconds. Which is 400k times faster to compute.

COVID APPROPRIATE BEHAVIOUR

The COVID 19 pandemic has led to unprecedented and unanticipated challenges requiring collective action and support from all.As responsible citizens of India ,we need to follow a set of 10 promises as part of COVID Appropriate Behaviour.

1. Greet without physical contact

2. Maintain physical distance



3. Wear reusable hand-made face-cover or mask, at all times

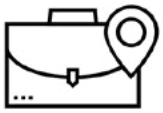
4. Avoid touching eyes, nose and mouth

5. Maintain respiratory hygiene

6. Wash hands frequently and thoroughly

7. Regularly clean and disinfect frequently touched surfaces

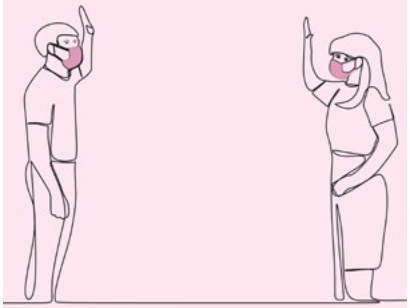
8. Avoid unnecessary travel



9. Do not circulate social media posts which carry unverified or negative information

10. Seek psychosocial support for any stress or anxiety

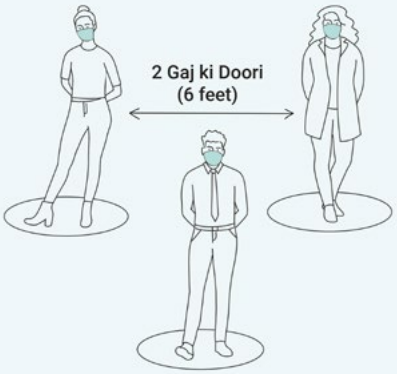
1. Greet without physical contact



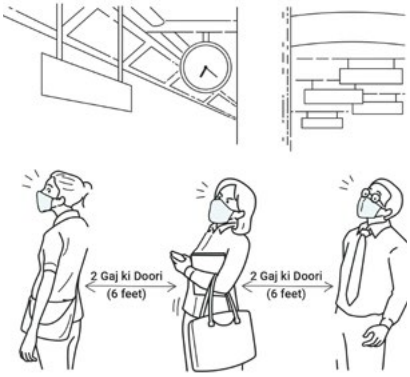
Avoiding physical contact is a responsible behaviour as it prevents the spread of COVID-19 disease and other viruses.

Be responsible! Promote greeting without any form of physical contact

2. Maintain Physical distance



Follow distancing norms in all public places Keep minimum distance of 2 Gaj(6 feet)



Especially, when you go out to shop for essential products to the vegetable or fruit market, dairy store, pharmacy, hospital, etc....

Also follow distancing norms when in a room / office with other people

If the other person is infected, their physical contact may increase the risk of transmission

3. Wear reusable hand- made face-cover or mask, at all times

Why is it necessary to wear a hand-made face cover or mask?

A handmade face cover or mask limits the spread of any respiratory infection and protects the community at large

How to wear a mask

1. Wear mask so nasal clip is over the nose. External pleats should face downwards
2. Open mask pleats so it covers mouth and nose
3. Tie upper strings first. Then lower strings. There should be no gap between face and mask
4. Do not touch front of the mask
5. Remove by first untying lower string and then upper string.
6. Replace mask after 8 hours or when damp/humid
7. Dispose the mask in the recommended manner
8. Clean hands after removal of mask
9. Do not reuse single use mask

Do I need to wear a mask at all times?

Remember three key occasions one must definitely wear a face cover or mask

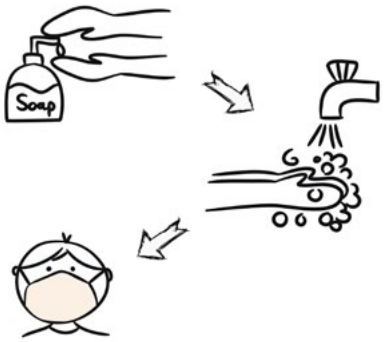
1. When you undertake any essential travel or go to a public place
2. When you are in a room with other people
3. When you have any signs of cough, cold or flu

You can easily make a face cover at home to protect yourself

Really?

Yes, just log on to www.mohfw.gov.in and read the manual on how to make a face cover

Always remember, wash hands with soap and water or use an alcohol based sanitizer before wearing a mask



4. Avoid touching your eyes, nose or mouth

We tend to touch our face inadvertently... let's be extra careful

But Why?

Hands touch many surfaces and can easily pick up germs and viruses

Once contaminated, hands can transfer the virus to your eyes, nose or mouth

From there, the virus can enter your body and can make you sick

Your safety is in your own hands- quite literally!

5. Maintain respiratory hygiene

Cover your nose and mouth when you cough or sneeze with tissue or handkerchief

Not carrying a tissue or handkerchief? Cough or sneeze into your bent elbow

Don't forget... Wash hands immediately after you cough or sneeze

6. Wash hands frequently and thoroughly!

Your safety is in your hands – Literally!

Wash your hands frequently and thoroughly with soap and water

Meet our hand hygiene superheroes

Frequently hand-wash with me using water. I am there to protect you from any virus, including COVID-19

ALCOHOL-BASED HAND SANITIZER
You can use me if you don't have soap and water facility.

7. Regularly clean and disinfect frequently touched surfaces

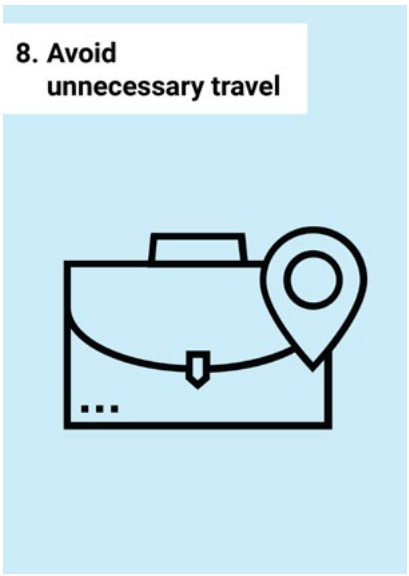
Practicing good environmental hygiene makes your surroundings safer.

How is that?

Because the infected droplets are likely to settle on surrounding surfaces.

You may use chemical disinfectants to clean the surfaces

But wait... Don't forget to wear gloves during disinfection



Source:
Ministry of Health ,Govt.Of India

We salute all the Corona warriors (Essential services staff) for their unconditional support and hardwork during the Covid Pandemic.

Also we as responsible citizens of India ,take a pledge to wear mask,follow social distancing and leave our house only in an emergency.

"Your mind is a magnet. If you think of blessings, you attract blessings; And if you think of problems, you attract problems. Always cultivate good thoughts and always remain positive and optimistic. We get what we think, so think positive, life will be automatically positive."

-Swami Vivekananda

"All knowledge that the world has ever received comes from the mind, the infinite library of the universe is in our own mind."

-Swami Vivekananda