



Developer Student Clubs

VIT Bhopal University

DSC in Focus



Issued in June, 2021

EXCLUSIVE

Plunge into this sea of memories with DSC. In this, we talk about the events and find exclusive editorials from the team as well.

ACKNOWLEDGEMENTS

DSC VIT Bhopal commenced with an idea to **connect** like-minded individuals, intending to grow collectively while **imparting knowledge** to the community members.

To build a strong community out of crumbs is an awe-inspiring task. For the same, we would like to show courtesy to **Abhishek Srivastava, DSC Lead**. He has always had our backs, naturally being the exceptional lead that he is.

To glue the team together, **Dr. L Shakkera**, our cherished faculty coordinator was always there. Truly, she always showed us the light and pushed us to work harder, beyond our limits, exploring new domains.

We are thoroughly grateful to the **core team** as well. If we had to choose anyone in the world to be along my side in this expedition, we would choose them. Each one of them is a gem, true connoisseurs in their fields.

To pitch in and execute the vision of the core team, the **team members** have always been on the cue, and our beck and calls. They have constantly been a source of motivation and strength through their conduct.

For a community to flourish, the support of management and faculties is required as well. I would wholeheartedly like to thank our **management**, our honorable **Vice Chancellor** and our **Student Welfare** office, VIT Bhopal University who promptly supported us and stood by us to make DSC a huge accomplishment.

Last but not the least, We are thankful to all the **community members**, who put their faith in us and trusted us along the way. It is them who inspired us to do better and expand.

TABLE OF CONTENTS

ABOUT DSC

PAGE 1

MESSAGE FROM THE COORDINATORS

PAGE 2

LOOKING BACK AT OUR EVENTS

PAGE 5

COMPOSITION & EDITORIALS FROM THE TEAM

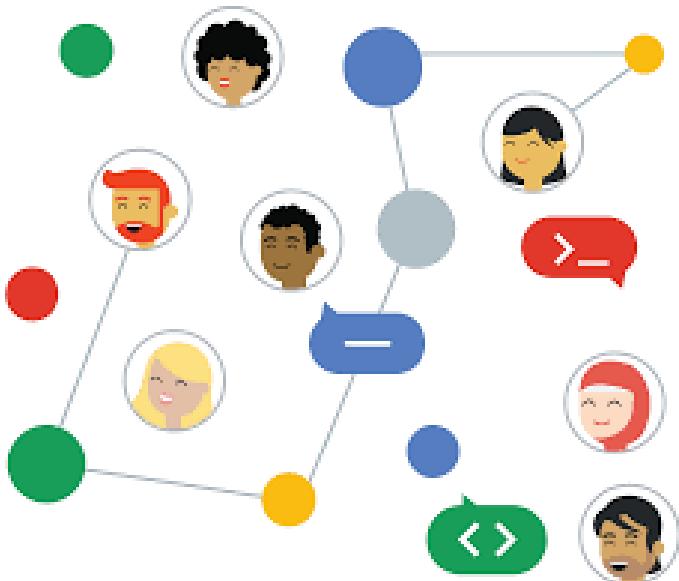
PAGE 25

WHAT COMMUNITY MEMBERS SAID

PAGE 40

DSC TEAM 2020-21

PAGE 43



ABOUT DEVELOPER STUDENT CLUBS



Developer Student Clubs are university-based community groups for students interested in Google developer technologies. Students from all undergraduate or graduate programs with an interest in growing as a developer are welcome. By joining a DSC, students grow their knowledge in a **peer-to-peer learning environment** and **build solutions** for local businesses and their communities.

The DSC program is a grassroots channel through which Google provides **development skills** towards employability. DSC activities are targeted towards University students and others including faculty members who want to learn development skills & work to solve real-life problems.

Our Vision is to help impact students bridge the gap between theory and practice to leave a legacy of impact.

We at DSC — VIT Bhopal look forward to forming a community where we can convert our knowledge into a **real-time application**, help each student to develop in different fields of technology and make use of our knowledge to build something that helps local businesses around us as well as their community.

DSC has been one of the most active clubs at VIT Bhopal. With over **1000 members** registered on our community website, we have **900+ followers** on Instagram, and we receive an overwhelming response on our stories keeping our followers engaged.

Moreover, we have over **300+ views** on youtube for our events, increasing regularly, with over **500+ subscribers**.

MESSAGE FROM THE COORDINATORS

DSC VIT BHOPAL





Learning is a lifelong process, and we learn something new every day, with every new experience. With the correct resources and motivation, development is not a tedious task. Many technical and non-technical domains can be studied, with a lot of future scopes. Thus, I would personally like to encourage all the readers and wish them luck on this educational exploration.

MESSAGE FROM DR. L.SHAKEERA

I am glad to pen down my best wishes to the team on completing their tenure in the first edition of the DSC Magazine. I have seen the team and the club magnify. In such a short span, they have truly built a place for developers who want to learn and who are their shoulder to shoulder in times of need.

It is my pleasure to be associated with DSC and the team. They always come up with unique ideas to keep the community engaged, and they never fail to surprise me.

It is a tough task to stay connected in tough times like these with limited interaction. Although, here we are after a year, wrapping up the first DSC.

“
**NINE-TENTHS OF
EDUCATION IS
ENCOURAGEMENT**
”

The journey of a thousand miles begins with just a single step, the graph that plunges forth showing rapid development begins with just a single dot and the huge banyan that stands tall begins with just a seed, so does a dream manifest itself into laudable action.

It feels gratifying when I look back and realize how flawlessly everything went, and it was made achievable with the support and coordination we received from our faculty coordinator and our community members for all the work we did throughout the tenure. I firmly believe that our task was herculean yet with faith, steadfastness and support our journey has been easier.

I embarked on the journey with a vision to help students bridge the gap between theory and practice and leave a legacy of impact. It was my guiding force that kept me motivated and committed to my endeavor.

Being the community Lead of DSC I ensured that everyone gets the guidance, right opportunity and platform to showcase their work and fulfil their dreams for the betterment of tomorrow.

With this erudition, I warmly welcome all to experience the positive energy through DSCZine, a special place for installing happiness and summarizing our wonderful Journey.

“
**LIFE IS WHAT
HAPPENS TO YOU
WHEN YOU ARE
BUSY MAKING
OTHER PLANS**
”

MESSAGE FROM DSC LEAD



LOOKING BACK AT OUR EVENTS

DSC VIT BHOPAL



Developer Student Clubs by Google are a platform where students can learn and grow by collaborating in a community of like-minded developers. It is a place where established or senior developers can contribute and probe along with amateur developers. **It is an open and free platform for students willing to learn.**

The first-ever DSC at VIT Bhopal is led by **Mr. Abhishek Srivastava**, our second-year CSE Core student, along with his team chaperoned by **Dr. L Shakkera**, Senior Assistant Professor, School of Computing Science and Engineering & Academic Coordinator, VIT Bhopal University.

The inaugural ceremony was conducted in an **online mode on the Google Meet** platform from **11 AM to 12 PM** on the **16th October 2020**, where we were overwhelmed by the participation and encouragement we received. It was begun by **Sarthak, DSC Technical Lead, and Vaishnavi DSC WTM and outreach Lead**, welcoming our esteemed guests, Vice-Chancellor P Gunasekaran, Dr. Manas Kumar Mishra, Dean SCSE, SWC, and the faculty members.

This was followed by a welcome address by the Faculty Coordinator, DSC Dr. L Shakkeea. Subsequently, our revered Vice-Chancellor congratulated and showered his blessings upon the team and motivated them for their future ventures. He quoted, “Developers are the people who create solutions and this role is a must for the survival of any industry”. Dr. Manas Kumar Mishra, Dean SCSE was also enthusiastic about this new student chapter. According to him, for students to evolve, working and collaborating in DSC will provide them all the resources they may require. Furthermore, Abhishek, DSC Lead vocalized his vision for DSC and influenced the students to join the club.

For any club to be stable, the core members play a huge role, ergo the anchors then introduced the core committee - **Anjali Singh (Management Lead), Hemang Maan (Design Lead), Ishika Kulkarni (Content Writing and Digital Marketing Lead), Siddhant Singh (Android Lead), V Surya Kumar(Android Co-Lead), Aman Sharma (Machine Learning Lead) and Smit Barmase (Web Lead).**

Next up, the Vote of thanks was given by Anjali, DSC Management lead. Truly, it was a prodigious experience for the members and the freshmen were keen to join the club as well.

With this exhilarating start, DSC is elated to announce the upcoming events as well.



Get it done with experts was a panel discussion and webinar conducted by **The Coding Culture**, an initiative by **50+ DSC**. The event mainly focused on educating beginners about how to kickstart their journey in competitive programming.

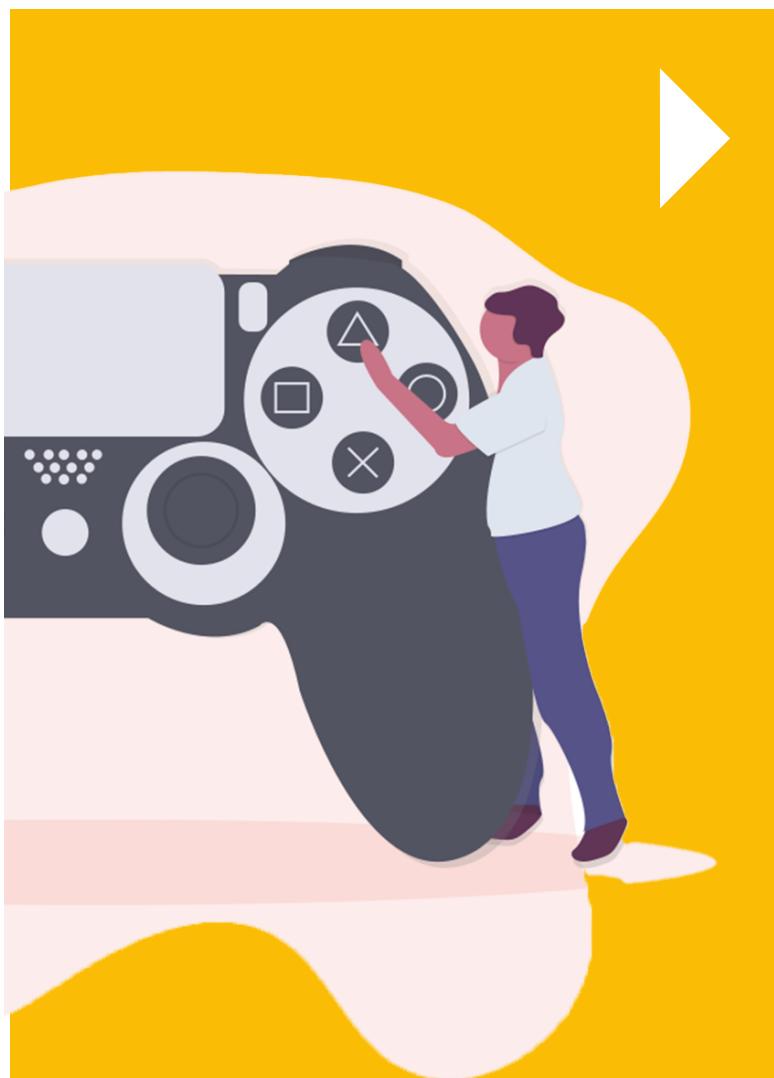
This event was a panel discussion with **Aanshul Sadaria**, Software Engineer II at Google; Institute Gold Medalist; Patent Holder (Internship at Adobe); **Kunal Kushwaha**, CNCF Intern Co-Founder at Code for Cause, MLH Fellowship Team Leader, GSOC Mentor; Aarnav Jindal, Google Kickstart top 3 percentile, CodeChef 6 star, CodeForces 1932, SDE Cure. Fit.

The key points of the discussion were providing beginners with the basic skills required to start and get going with competitive coding, the available learning resources, and how to get better with each passing day. The best in the class, the panel discussion was educational for all the beginners as it covered the entire How-tos of the field of competitive coding and got some expert insights from the leaders of the field as well.

The event was streamed live on the **15th of November at 5 PM**, and successfully encouraged students to explore the field of competitive programming.



REPORTED BY: PRATIBHA TIWARI
DSC CONTENT TEAM MEMBER



The illustration shows a person from behind, wearing a white shirt and dark pants, standing on a large, stylized video game controller. The controller is light blue with a dark grey center. The person is pointing their right index finger at the central touchpad. The background is a solid yellow color.

DEVELOP YOUR FIRST GAME USING JAVASCRIPT

REPORTED BY: PRATIBHA TIWARI
DSC CONTENT TEAM MEMBER

Game Development!

Develop your first game using Javascript was a completely hands-on workshop focused to give freshers or web-development learning enthusiasts, a foundational proficiency of both back-end and front-end development. The session was held on **22nd November**, Sunday at 3 PM by **Smit Barmase, Web lead of DSC**, and **Sarthak Kundra, the tech lead**.

The session started with the introduction of tools needed for Web Dev. Heading over to the introduction of languages for web development with their uses, and several other technologies linked to learning and application of web development by Smit.

Later, the tech lead of DSC Sarthak Kundra came up with a very interactive and intriguing session about building a multiplayer game using Javascript. This 2 hours long and engaging session was streamed live on the official Youtube channel of DSC VIT BHOPAL. A highly interactive session that successfully made beginners aware of the basics of Web Development and gave them a fun experience of building this game.

To give a good push to our university students for **Hacktober Fest 2020**, we planned a session on the **8th of October, from 1 PM to 2.30 PM**.

This session was conducted by DSC VIT Bhopal's **Technical Lead, Sarthak Kundra**, with the sole purpose of building an understanding of **core concepts of Git and GitHub**.

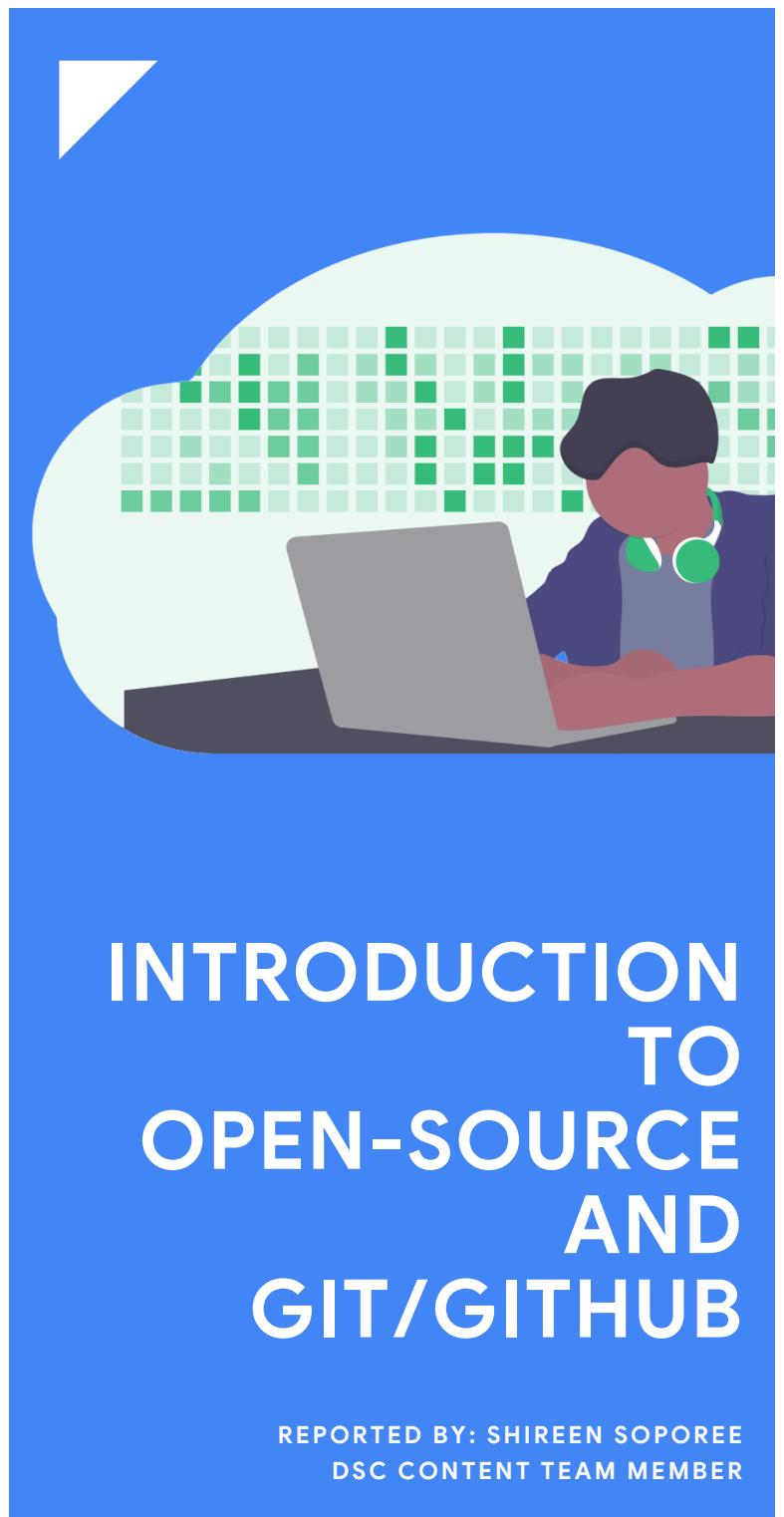
We invited a guest speaker, **Kunal Mehta**, the Google Summer of Code Student Developer, to give students the guidance and insight required for the same.

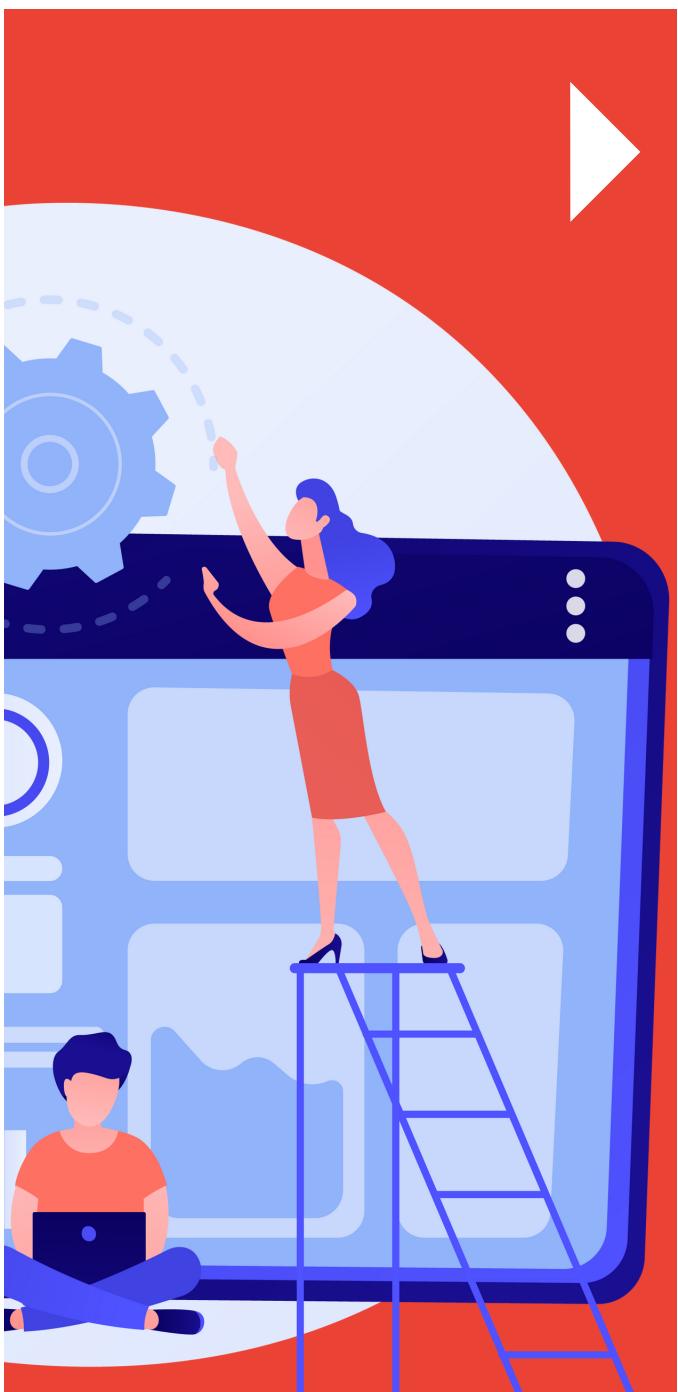
With one-to-one friendly interaction with the speakers, the session took a step forward to its agenda, beginning with Open-Source and how it functions with open examples and our guest speaker demonstrated the model that he has worked on, called OrcaAL.

The session continued to answer the main objective that why and how students should contribute after understanding the importance and usefulness of the same. Our speakers shared about their project experiences with open source platforms and how they were supported by their colleagues and mentors on open-source and participating in popular competitions like Google Summer of Code, Hacktober Fest offering mentorship opportunities, a brief explanation of Major League Hacking fellowships on the audiences poll, and suggested available industrial internships with good stipends for students actively involved in open source, and majorly emphasizing how motivating and a great learning platform it was for them and continues to be.

Last but not least; GIT and GitHub introduction and how it is to work with, and understanding Git terminologies. Starting with basic steps to complex,

the session continued with a **practical demonstration** explaining each step on GitHub. The meeting was concluded with active participation on the same, that focused to add value to the ongoing lesson, with questions from participants, and doubt clearing that was on roll throughout the session by the host.





SOLUTION CHALLENGES

REPORTED BY: SHIREEN SOPOREE
DSC CONTENT TEAM MEMBER

Google Developers is here with yet another initiative “[Solution Challenge 2021](#)”, to solve one or more of the 17 [United Nations Goals](#) towards [Sustainable Development](#).

For the same, DSC VIT Bhopal conducted a series of sessions in February on the official Youtube channel of DSC VIT Bhopal, giving insights to students about the mega hackathon, Solution Challenge 2021!

The event series was organized by our [Android team](#), where the introductory session conducted on [6th Feb 2021, at 4 PM](#) was facilitated by [Android Lead, Mr. Siddhant Singh](#) and host being Mr. Ankit Sagar and co-host Ms. Aditi, guiding the students with the prerequisites and different categories for problem statements, rules and terms for judging criteria, also various rewards and prizes for the finalists like Chromebook, Mentorship from Google, Chance to visit Google CA, Swag and much more.

The second session, hosted on [15th Feb 2021, at 10 AM](#) by Mr. Vishesh and Mr. Dhruv Mehta, conducting a [Java Workshop](#) that aims to familiarize the participants with the basics of Java to build a model.

The concluding session was held on [27th Feb 2021, at 6 PM](#) with the agenda [“Kickstart into Flutter development”](#). Flutter is acknowledged as Google’s UI toolkit for building natively compiled applications for mobile, web, and desktop from a single codebase, and was hosted by Mr. Onkar and Mr. Ankit Sagar. With active participation and learning, the event series of Solution Challenge 2021 came to a satisfactory completion.

COLLAB WITH DSC WOW

REPORTED BY: SANSKRUTI DUBE
DSC CONTENT TEAM MEMBER



DSC Week Of Wonders, aka DSC WOW, was a collaborative event of 120+ DSCs from India, who had joined hands to bring together students, developers, and communities under the same roof. It was a weeklong event conducted from December 7th to December 13th, 2020, consisting of 4 days of workshops/sessions and a 48 hours hackathon “CodeOffDuty”. It was much more than a few workshops and a hackathon, it was a place where imagination met the technology of tomorrow.

The event strived to provide a free global platform to students where they could attain knowledge from highly experienced industry

professionals and also polish their coding skills, or maybe just get started with their programming journey.

Day 1 (December 7th) events kicked off at 5 PM with a welcome address by Ms. Erica Hanson(Global Lead for Developer Student Clubs Program) followed by a keynote session by Mr. Siddhant Aggarwal and Mr. Bishwajeet Malik and a workshop on “Your first ML project” by Mr. Sayak Paul, which was subsequently followed by a [Kaggle Talk](#) by Ms. Usha Rengaraju. The day was called off at 8 PM with a discussion by Ms. Rachel Hu.

Day 2 (December 8th) commenced at 5 PM with a session on “[Intro to blockchain](#)” by Mr. Pranay Chauhan, followed by a panel discussion on “[Design thinking \(UI/UX\)](#)” by Ms. Charu Choudha and Mr. Rohan Mishra. The day concluded at 8 PM with talks on “[Community building](#)” and “[Building your personal brand](#)” by Mr.Nikhil Raichur and Ms. Miri Rodriguez respectively.

Day 3 (December 9th) took the plunge with a workshop on [Flutter](#), by Mr. Mrinal Jain at 5 PM, which was followed by a session on “[Web development/designing](#)” by Mr. Vrijraj Singh. The day wrapped with yet another session on Flutter, by Mr. Sanskar Tiwari.

Day 4 (December 10th) began at 5 PM with a workshop on “Build an AR-VR app in <30 minutes” by Mr. Koren Grinshpoon, followed by a session on “Building AR apps on Web Frame”. The day tied up with a session on “How to manage work-life balance” by Googlers.

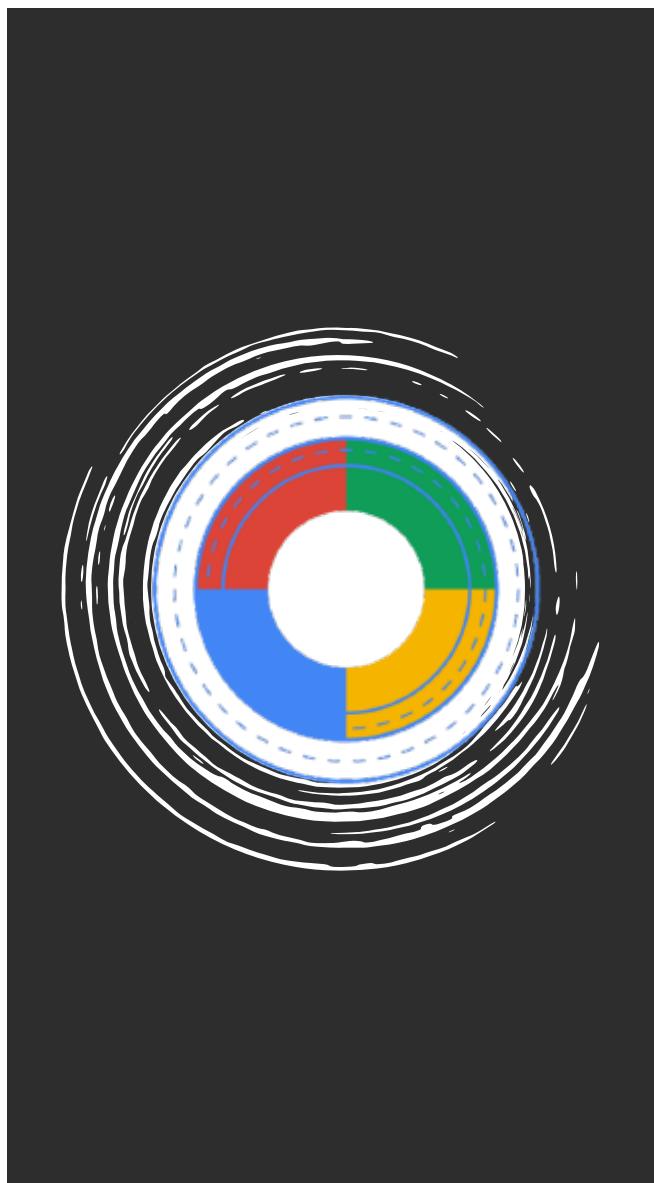
Day 5 (December 11th) unfolded with the Hackathon opening ceremony keynote at 9:45 AM followed by a session by SCALER EDGE and later on a shoutout was given to all the sponsors. The hackathon “Code off duty” officially commenced at 12:30 PM.

Day 6 (December 12th) rolled off by Mysuru session at 2:30 PM followed by Appstone session, Jovian session, and Pratilipi session.

Day 7 (December 13th) marked the climax of DSC WOW with Demo time for the top 20 teams of the hackathon with the judges and then the Closing ceremony took place post the announcement of the top 20 teams at 5 pm.

The Judge panel for “Code off Duty” consisted of Mr. Vrijraj Singh (Google Developers Expert for Firebase and Web Technologies), Mr. Gourav Sharma (Associate Solution Architect), Mr. Vinit Shahdeo (Software Engineer at Postman), Mr. Aqib Ahmed (Sr. Software Engineer at Colt Technologies), Mr. Akash James(AI Architect at Integration Wizard), Ms. Niharika Arora (Google Developer Expert for Android), Ms. Jyotsna Gupta (Women Who Go Bangalore Founder) and Ms. Varsha Jaiswal (Organizer at GDG Jalandhar).

The sponsors for the event included Scaler Edge, Airmeet, Devfolio, Google developers, Mysuru, Pratilipi, Tezos, Appstone, Egghead.io, Fold, Manning Publication, ShapeSwift, Digital ocean, Streamyard, echoAR, Matic, Face developers circle, Balsamiq, Axure, Hattsoff, Taskade, Replit, Sketch, Zulip, Give my certificate, Jetbeans, Voiceflow, Noticebard, Progate, strikingly, Interview Cake, Jovian.ml, Flutter Chandigarh, The Coding Culture, GDG Mysuru, and TensorFlow User Group Mysuru.



"An Introduction to Cybersecurity" was an event conducted by a student and for the students and it was scheduled for **10 AM, 31st March 2021** on youtube live. It aims to give a "student's perspective" on cybersecurity and an opportunity to learn things right from scratch by **Saket Upadhyay**, Student Chair and Founder of FrigidSec and 3rd-year Cybersecurity & Digital Forensics student at VIT, the speaker of the event.

The event was an encapsulation of the scope of cybersecurity domains and the potential perquisites and perils in this field, elaborating various possibilities of cybersecurity domains, perks, and pitfalls, skills and expectations, etc.

The session was planned to cover what is cybersecurity and available paths or domains in the cyber and cybersecurity stream, where can one find inspiration and guidance while they work to develop basic-advance skills and best resources from where they can acquire the required knowledge, when can one start and how they can prepare themselves and learn intimidating topic effectively through right planning and execution and also platforms to get work experience and understand the red signals in the same.

The goal of the event was to establish a better understanding of cybersecurity and its potential, with a confident approach to see beyond cinematic representations and cliches like bug hunter and CISO, but also

the actual roles like Blue team and Red team member, Digital Security analyst, etc. Last but not least, a live doubt clearing session was conducted that helped not one but many.



DEVELOPERS DAY SPECIAL GOOGLE ASSISTANT

REPORTED BY: SHIREEN SOPOREE
DSC CONTENT TEAM MEMBER



Google actions are the applets of [Google Assistant](#) which support in extended functionality of the assistant and it is the development platform of the assistant whom we call with just a couple of words.

On the momentous occasion of [Google Action Developers Day](#), to embrace

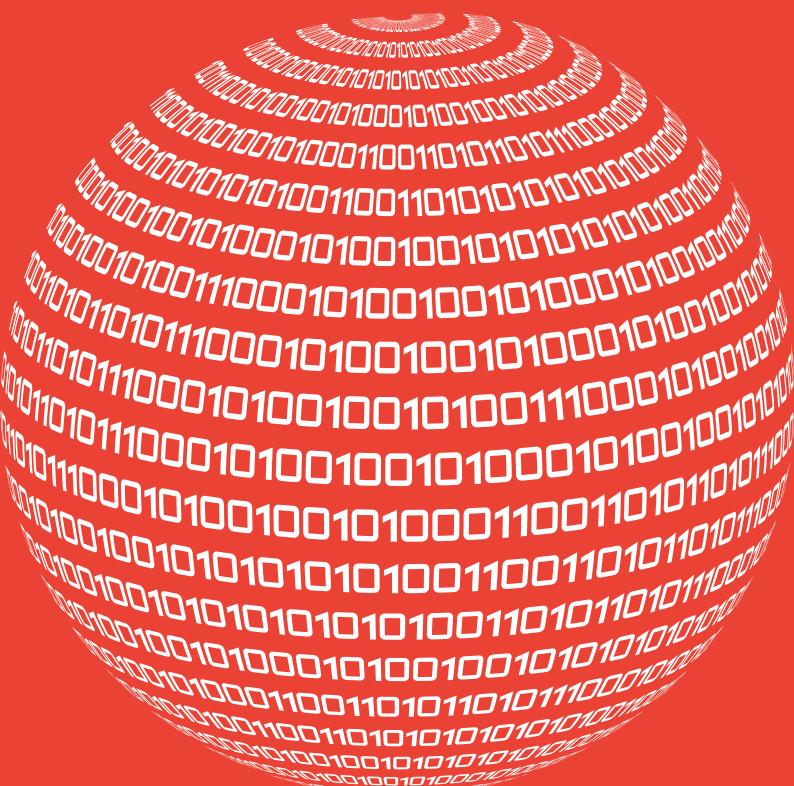
the significance of the day and acknowledge that every effort of the developers, made it more reachable with local DSC Chapters of different universities/colleges in Bhopal including [VIT Bhopal University](#), [OIST](#), [BIST](#), [LNCT](#), and [SISTec](#), to embark on the event together, celebrating the big moments by sharing the knowledge and demonstrating the true meaning of the day.

The online event was scheduled for [8 PM, 9th October 2020](#) on youtube with the speakers of the session being DSC Leads of the organizing universities/colleges themselves.

The session covers intriguing questions like:

- What exactly are Google Actions?
- What is Actions SDK, and how to use it?
- How to make a Google Action?
- Have a look at how Actions work with a hands-on workshop!

To get a deeper insight into Google Actions and its basics with a live demonstration of a well-working Action. And how these actions are integrated to make us an optimized assistant we use almost every hour, and proceeding with your own [First Google Action with CodeLab](#), [QWIKLabs](#), etc., by the end of the session.



THE CODING CULTURE (TCC)

REPORTED BY: SANSKRUTI DUBE,
DSC CONTENT TEAM MEMBER

The Coding Culture is the biggest student-run coding community in India which is an initiative taken up by 50+ DSC to help students in the journey of competitive programming. It aims to be a community that is consistent in providing resources, conducting sessions, and enables interaction among students of different domains and capabilities. TCC also organizes regular contests, wherein one can apply their learning and thus understand what things do they need to work on.

The first-ever event in collaboration with TCC was "Get it done with the experts" which was conducted in an online mode on the StreamYard platform from 5 PM to 6 PM on the 15th of November 2020. The webinar was based on how to kick-start your journey in the world of competitive programming. Mr. Aanshul Sadaria (Software engineer II at Google), Mr. Kunal Kushwaha (GSoC Mentor, CNCF intern), and Mr. Aarnav Jindal (SDE Cure. Fit) constituted the speaker panel for the webinar.

The subsequent event was a competitive coding event named "Get. Set. Code" which

was held on the **21st of November at 5 PM**, wherein almost 1K coders executed their coding knowledge into action.

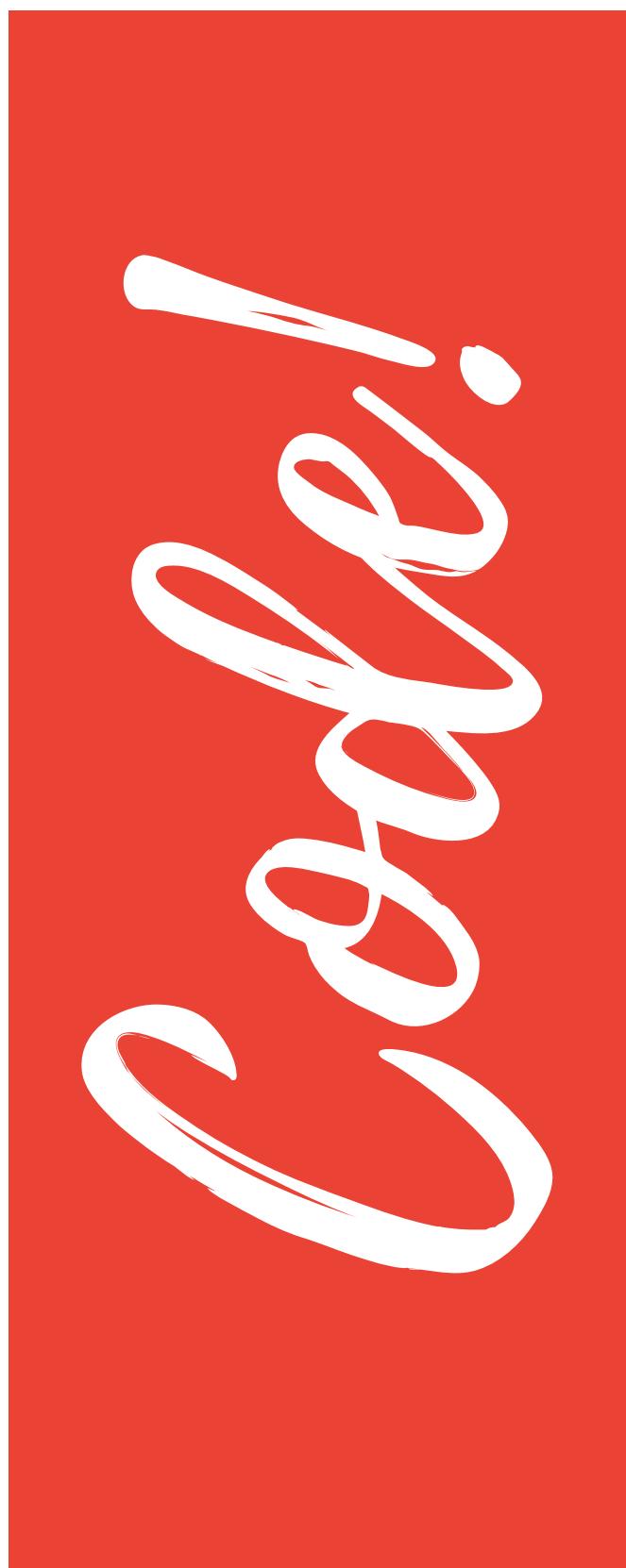
The next webinar series was a two-day keynote speaker session on Number Theory & Mathematics and Competitive Coding by a Mathematics enthusiast, **Mr. Mohammed Nizamuddin Farhaan**. It was held on the **5th and 6th of December from 5 PM** onwards on both days which was streamed live on the official Youtube channel of TCC. This event successfully made the students aware of the required mathematical aspects in competitive coding.

Another two-day webinar series was held on **Arrays and Bit Manipulation** to help students to get rid of the struggles of the time complexity of codes. The event was streamed live on the official Youtube handle of TCC on the **8th and 9th of January 2021** from 5 pm onwards with Mr.Sumanth as the speaker for Day 1 for Array topic and Mr. Sagnik Chattopadhyaya for Day 2 for the topic **Bit manipulation**.

Another webinar was held on the same topic, on **10th January 2021 from 5 PM** onwards live on the official Youtube handle of TCC. The speaker for the session was Mr. Yashraj Kakkad.

All of the aforementioned events really proved to be a wondrous aid for students in kick-starting their journey as competitive coders.

We are eagerly looking forward to their upcoming events.

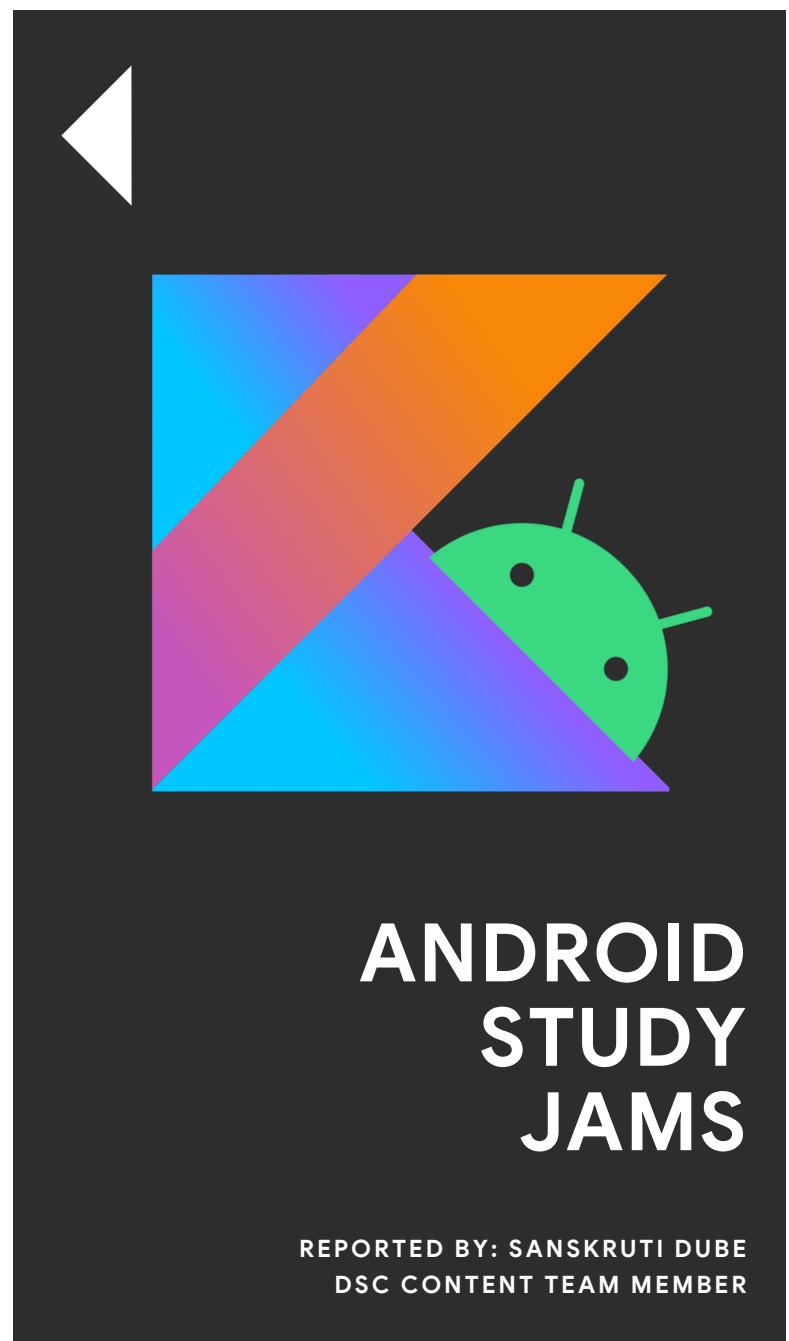


Android Study Jams are community-organized study groups for people to learn how to build Android apps in the Kotlin programming language, using a curriculum provided by Google. DSC, VIT Bhopal University catered to 2 different tracks for the event, namely- **New to Programming Track and Prior Programming Experience Track**. The event spanned **3 sessions** from December 2020 to January 2021.

Our **Android Co-lead, V Surya Kumar** facilitated the event. It was held in collaboration with **DSC MAIT, Delhi** and **DSC ADIT, Gujarat** with **Ankit Bhardwaj** and **Prit Thakkar** as respective facilitators from these universities. The event ultimately aimed to provide an opportunity to students to learn android development from scratch.

The inaugural session was held on **6th December 2020, at 3 PM**, live on the official Youtube handle of VIT Bhopal. It was mainly focused on “**Introduction to Kotlin language**” to get students acquainted with the basics of android development.

Session 2 was held on **2nd January 2021, at 3 PM**, live on the official Youtube handle of VIT Bhopal. It covered “**creating a Tip Calculator app from scratch**” and “**creating an Affirmations app based on Recycler view**”.



Session 3, the final session in the series was held on **17th January 2021, at 3 PM**, live on the official Youtube handle of VIT Bhopal. The agenda of this session was “**Creating a Todo app from scratch**”.

Android Study Jams got a great response from the students and successfully guided them in kick-starting their Android development journey.

DSC ML TALKS

REPORTED BY: SANSKRUTI DUBE
DSC CONTENT TEAM MEMBER



DSC ML Talks was a month-long event focused on ML beginners and freshers, aimed at getting them acquainted with the basics of Machine Learning, and acting as a launchpad for their careers in the field of AI and ML. The series was hosted by our ML Lead Aman Sharma along with his team members Aayush Mishra, Indrashis Paul, and Yash Sinha.

The series kicked off with its introductory session on the **7th of February 2021 from 3:00 PM to 4:30 PM** live at the official Youtube channel of DSC VIT Bhopal. It was an introductory session covering **Introduction to ML and its applications**, the prerequisites to becoming an MLE, and what courses one can take to advance in this field. ML Book Club was also introduced during the event.

Session 2 rolled off on the **16th of February 2021 at 10:00 AM** live on the official Youtube channel of DSC VIT Bhopal. It was a **hands-on workshop covering Introduction to Google Colab, NumPy, Pandas**, and a tutorial. 2 quizzes were conducted during the session to get the participants acquainted with these libraries; one on NumPy and the other on Pandas; won by Supantha Paul and Shubham Sangwan respectively.

Session 3, the final session in the series was held on the **2nd of March 2021 at 6:00 PM** live on the official Youtube channel of DSC VIT Bhopal. It was a **hands-on Exploratory Data Analysis session using Matplotlib and Seaborn** foreseeing the use of EDA while having a lot of entries in a huge dataset. 2 quizzes were conducted during this session too; one Matplotlib which was won by Amaan Ali and the other on Seaborn whose winner was Akaash Sharma.



Developers Student Club has always been an advocate to “[Women in Tech](#)” through their Women TechMakers(WTM) wing.

Perpetuating the same mission, yet another exciting event exclusively for females on the eve of this Women's day [8th March 2021 at 7 PM](#) was conducted, where our dynamic female orators and the guest speaker, [Ms. Anjali Sharma, Associate Product Manager at Bajaj Finserv Health](#) shared her anecdotes to the path of success and motivated students as she talked about her journey as Google Women Techmakers Engineering fellow, Category growth analyst at Gradeup to Google Ads top marketer, Software development summer analyst at Twimbit, and Design and cost Analysis Engineer at Pravega Racing, regardless of her non-technical background.

The event revolved around [five main ideals](#) that all women in tech should understand from their schooling days:

- Ask for more
Encourage female students to have their voice and decide what they want themselves, not what others want and this decision-making can be

about anything, for example, getting well-paid jobs, seeking support from platforms like Google Women Techmakers fellowship and boot camps.

- Standing out rather than fitting in
Whether it is personal life or professional, take the risk that one needs to take to understand what they want from life and experience to its full potential by taking charge of their life.

- Do it anyway

One might feel that they cannot do this task or are not eligible or have the required experience for that job but it should not let them stop from trying harder, building confidence by building profile, creating opportunities whether for scholarships or jobs. Give everything a try and never give up even after facing struggles or rejections on the way.

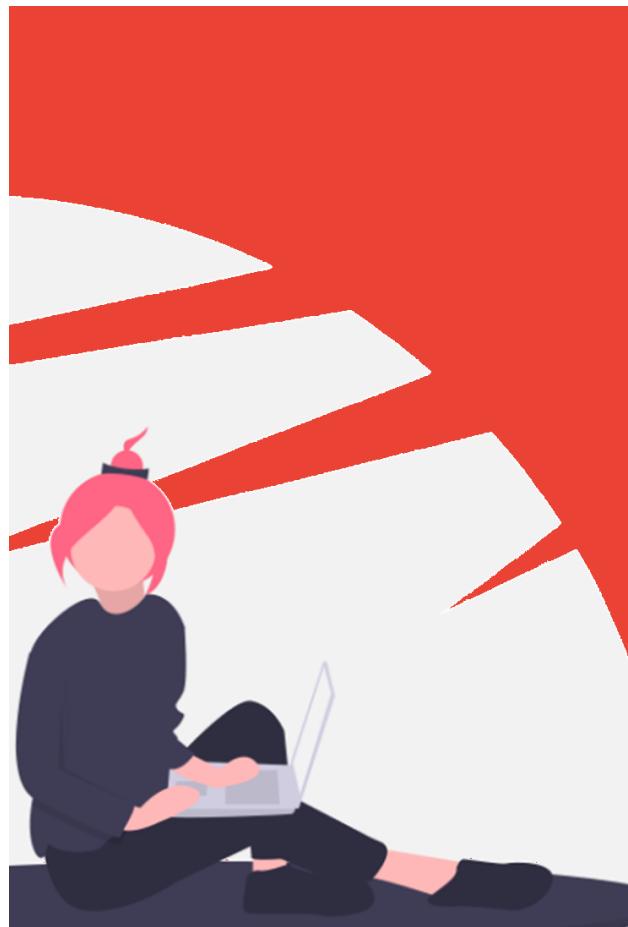
- People around you matter a lot

Choosing the right circle is one of the most important decisions that any student takes as it has a huge influence over their mindset and actions towards their work and environment.

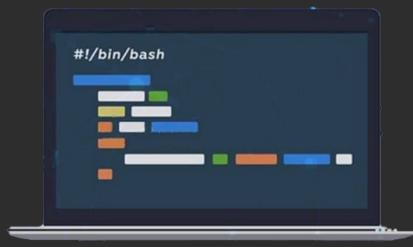
- Make sure you are not the last one

Being a helping hand to others, and motivating others should be ones' habit and personality as that teaches life lessons that cannot be acquired from any school or university, but be the last person to be involved in racism and other bad influences.

The event concluded with questions and answers discussion about grabbing opportunities, how to make decisions for yourself, and different ways that can be used to enhance work profile and placement tips with brief elaboration on available internships and scholarships that are only for female applicants like Google scholarship, adobe scholarship, Microsoft conferences, and amazon internship and full time offers, etc.



The event aimed to ignite a spark in our fellow young women where they were made aware of how to grab opportunities in the industry and be the best version of themselves.



GUIDE TO SHELL SCRIPTING

REPORTED BY: SHIREEN SOPOREE
DSC CONTENT TEAM MEMBER

“Introduction to Shell Scripting” was an online event streamed live on youtube by **Abhijeet Chatterjee and Saket Upadhyay- Web team members, DSC VIT Bhopal**. The event premiered at **10 AM on April 15, 2021**, and received an outstanding response from the learners.

The session emphasized the **shell scripting program run on UNIX/LINUX systems**, starting with an introductory of LINUX system, Kernel, Shell, etc., and entering into the working of shell, its types, and structure. The session continued to give insights on the variables and operations and also command-line basics of shell scripting.

Hence, the event summarizes the importance of shell scripting knowledge for budding young developers due to the robust scope and huge possibilities in the field of shell scripting.

“Introduction to Blockchain” was an introductory event to Blockchain technology, by **Sarthak Kundra, Technical Lead, and Neel Modi the Web Team Member at DSC VITB**. The event was streamed live on youtube on **April 11, 2021**, at 7 PM.

The session began with addressing topics like what is Bitcoin, What is the underlying technology Blockchain, and later a detailed description about how one can get started and build a career in Blockchain Technology. The event focused on sharing the scope of Blockchain, Applications of the technology, and some resources to finally get started in the field. All aspects of what is a cryptocurrency and how it works were covered.

Introduction to Blockchain was a very interactive and interesting event throughout and concluded with accomplishing the aim of making peers aware of the possibilities that lie in the domain of Blockchain and how they can grab those opportunities with their maximum potential!

INTRODUCTION TO BLOCKCHAIN

REPORTED BY: PRATIBHA TIWARI
DSC CONTENT TEAM MEMBER

Yet another Collab event of Developer Student Clubs announced "**DESIGN 2 SUSTAIN**" as a part of **Solution Challenge 2021**, a two-day event starting from Saturday, Mar 13, 6:00 PM, streamed on the official youtube channel.

The event inspiration is from the Design Sprint, which is a step closer to be the #1 solution challenge. It helps in identifying a problem from the **United Nations' 17 Sustainable Development Goals** define a user and find a solution for the same. It will challenge you to think out of the box while solving real-world problems.

The first session of the Design 2 Sustain day 1 hosted by Mr. Samar, started with a **Panel discussion on Brainstorm and Streamline Ideas** with guest speakers from AUCE college, Ms. Sri Laasya Nutheti, and Mr. Yashank Jhamb from Chitkara University. The session allowed the guest speakers to share their experience and knowledge about the solution challenge hackathon among the interested audience.

And the second session was aimed at **UI/UX Wireframing and Prototyping** session with guest speakers from ABESEC college, Ms. Vanshita Singh, and Mr. Aryendra Singh from DSC Galgotias, Technojam.

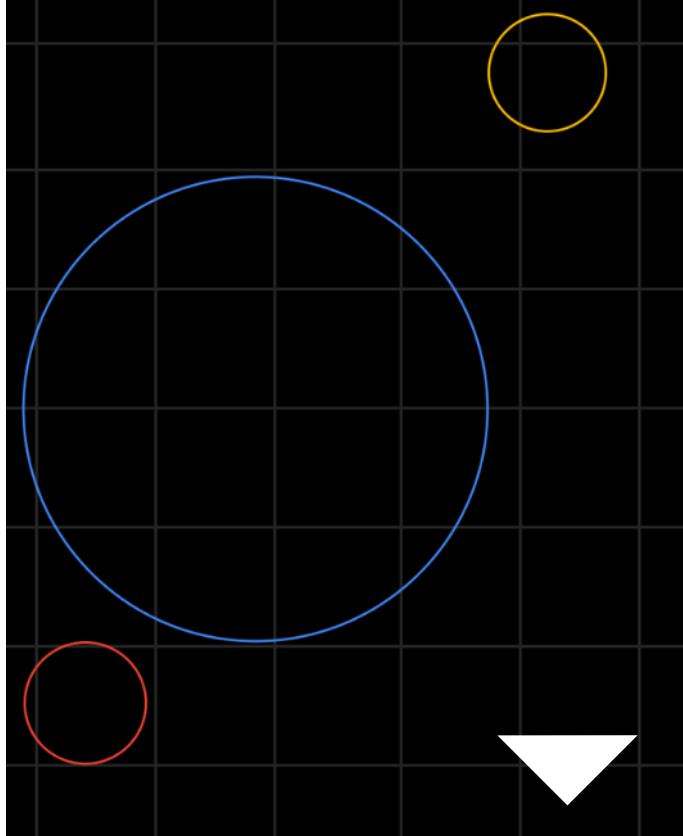
This session covered the broad aspect of Wireframing in Figma and Prototyping in Figma with a live demonstration on the same and befriended all the participants of Solution Challenge 2021.



Last but not the least, the 3rd session of the Design 2 Sustain event was hosted on day 2 by Mr. Samar with guest speakers from ASEB college, Mr. Aravind Nair, and Ms. Vaishnavi Dwivedi from RAIT. With a quick recap of the previous sessions, our speakers dived into **Scalability and Beta testing** that is applied to analyze the solution products for software life, design, validation, and verification in testing and user-friendly usability and utility, which are some of the major aspects of the competition. The final session concluded with a discussion on FAQs and tips and guidance for the Solution Challenge 2021 to all the participant developers.

HACKDSC 2021

REPORTED BY: SANSKRUTI DUBE,
DSC CONTENT TEAM MEMBER



"HackDSC2021" was a 48-hours hackathon held on the 1st and 2nd of May 2021, organized by Google Developer Student Club, VIT Bhopal University. Themed on "Innovation", with the problem statement - "Targeting local problems and solving them through technology".

The hackathon was open to all the students of our university, as well as others across the nation, encouraging healthy competition and allowing them to validate their tech skills. HackDSC2021 primarily aimed to provide students with necessary exposure in the technical domain and insight as to where they stand. The hackathon was absolutely free of cost.

The registrations for HackDSC2021 were open from **15th April at 10 AM to 30th April at 12 AM**. The event started with a **Kick-Off Session on 1st May at 10 AM** wherein the problem statements were released for each of the **9 domains: Education, Fin-tech, Health, Security, Women empowerment, Climate change, Open-innovation, Agriculture, and Cloud computing**. The hackathon began on the same day at 11 AM. The final project **submission deadline was 3rd May at 12 PM**.

HackDSC2021 witnessed an overwhelming response from students from universities all across the nation. With **registrations of over 750+ individuals and 350+ teams scattered across 9 domains**, the projects were assessed based on their application, relevance, design, and structure of code. More than 270 teams submitted their completed projects. **The Felicitation Ceremony was held on 5th May at 10 AM**.

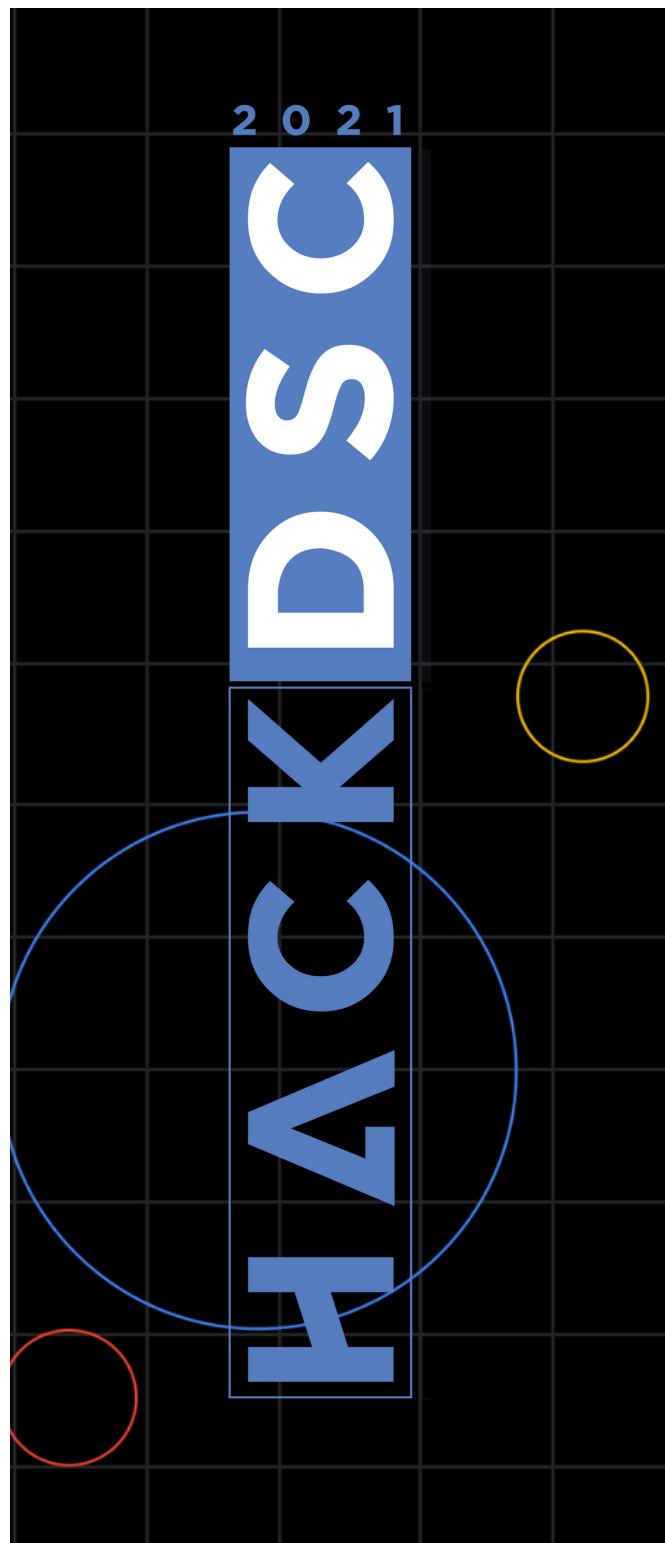
Team “CurbYourK-Means” [Project Title: M-Care (Medicines And COVID related Resources for Everyone)] emerged as the winners followed by “The Architect” (Project Title: WiSDOM) as the first runner up and team “Dart9000” (Project Title: Decode-X) as second runner up.

The honorable mentions included:

- COVID Resources Web App - God_Speed
- RAAHI - Tap into your skills with professional guidance - Cache 101
- Women Safety Application - LateNightCoders
- Drowsiness Detection Web app - Deep Minds
- GymAR - Deepesh Suranjanandass
- Sahay - Blaze
- Oasis: Hope amidst Despair - Euphoria
- Hack For Locals - TEAM LOCARO

HackDSC2021 was sponsored by Coding Blocks, PrepByteS, ICONS8 as Diamond sponsors and Rosenfeld, Coding ninjas, 1Password, Wolfram Language, StreamYard, Sashido, and Google Developers as Gold sponsors. The partners included Dare2Compete Platform (partner), Badelog.in (Merchandise partner), and the Community partners were: DSC Gyan Ganga Group of Institutions, DSC HMR Institute of Technology and Management, DSC Vignan’s Institute of Information Technology, DSC NIT Rourkela, DSC (Sri Krishna Arts and Science College, DSC CV Raman Global

University, DSC Vidya Academy of Science and Technology, DSC MBM Engineering College (J.N.V.U), DSC Lovely Professional University, and GeeksforGeeks Vellore Institute of Technology, Bhopal.



COMPOSITION AND EDITORIALS FROM THE TEAM

DSC VIT BHOPAL



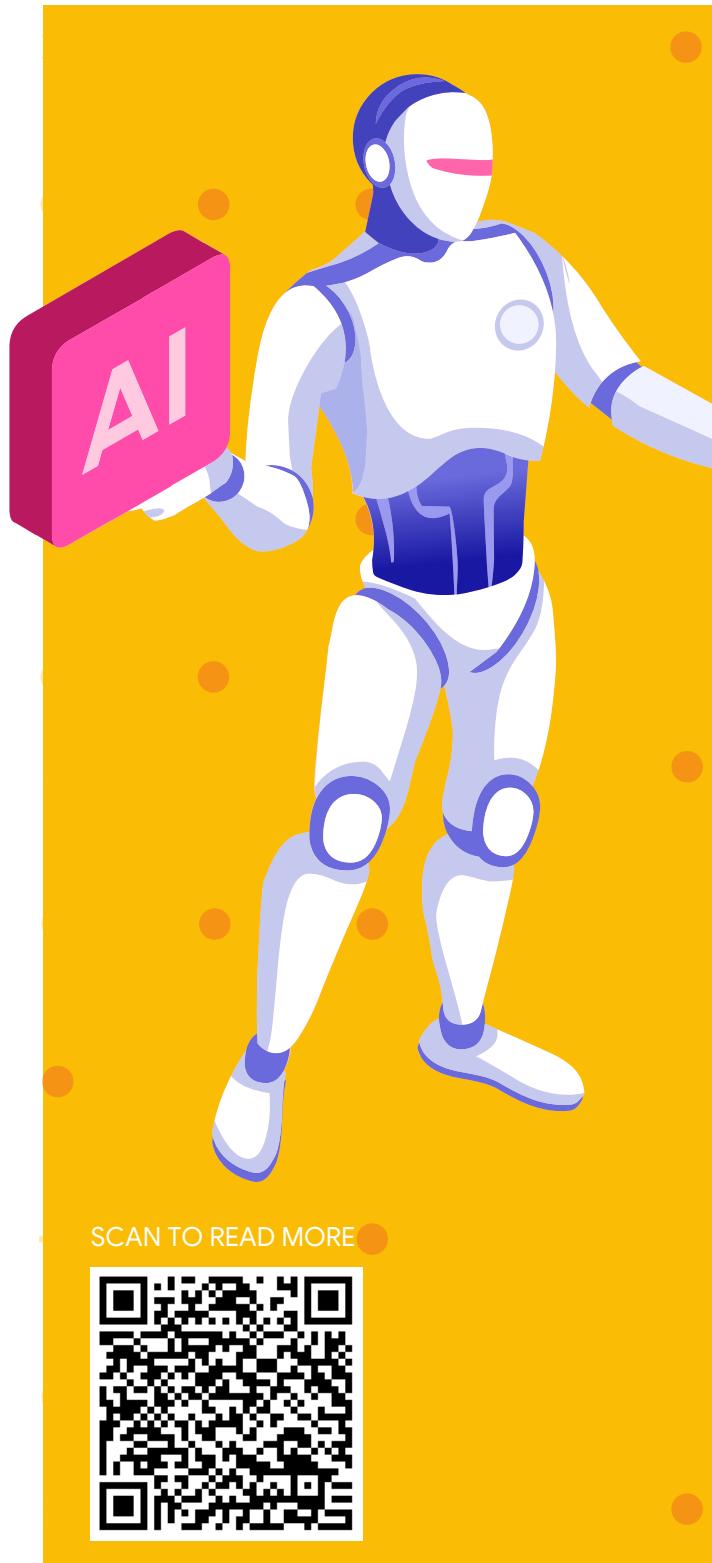
THE HITCHHIKER'S GUIDE TO OPTIMIZATION IN MACHINE LEARNING

BY: AMAN

Machine Learning is the ideal culmination of Applied Mathematics and Computer Science, where we train and use data-driven applications to run inferences on the available data. Generally speaking, for an ML task, the type of inference or the prediction that the model makes varies based on the problem statement and the type of data one is dealing with in a problem. In contrast to the dissimilarities, these algorithms share some similarities as well, especially in the essence of how they work.

Now, considering supervised algorithms

as the superset, we can go ahead and further categorize these algorithms into smaller sub-groups, based on their characteristics — regression VS classification algorithms, parametric VS non-parametric algorithms, probabilistic VS non-probabilistic models, etc.



SCAN TO READ MORE





LIFE WITHOUT ALGORITHMS

BY: SURYA

We believe in what we see without knowing what's going on behind it. And what we always see is a task getting completed without acknowledging the algorithms behind it. Our all day to day activities run on algorithms either developed by you intentionally or unintentionally.

Even your own body works intelligently based on algorithms; when you listen to your late-night playlist; when you chew your favorite dish; when you take a walk. *What our body does is follow a set of instructions to accomplish a task.* Without algorithms, you may tuck in something but you'll never know how to digest it. Opening your front door and taking a left turn walking 100m to sip your espresso from the nearest coffee shop is impossible without the steps you are following (aka algorithms).

Computers without algorithms are like human beings without a nervous system. We may have hands to do something but we don't know when and how to do that something. In computers, "an algorithm is any well-defined sequence of computational procedure that transforms the input into output."

KOTLIN VS JAVA

BY: SIDDHANT

When Android development needed a more modern language to complement Java's capabilities and help in mobile development, Kotlin was born. Kotlin was developed by JetBrains, the same company that created IntelliJ, an immersive development environment. It is a statically typed, open-source language built on the Java Virtual Machine (JVM). The benefit of Kotlin is that it can be compiled into JavaScript and used for Java. This enables developers to not only upgrade existing Java applications to Kotlin but also to continue working in Java in Kotlin.

Sun Microsystems, which is now owned by Oracle, created Java, an object-oriented programming language. Java is an old programming language that can do a lot more than creating Android applications. As a consequence, if you know Java, you will have a lot of career options.

It gives you the possibility to stretch your wings a little wider. Kotlin's benefits for Android developers are undeniably the way of the future. Kotlin is now the official Android programming language for several companies. Kotlin's future as the latest Android programming language is unquestionably sophisticated.



SCAN TO READ MORE



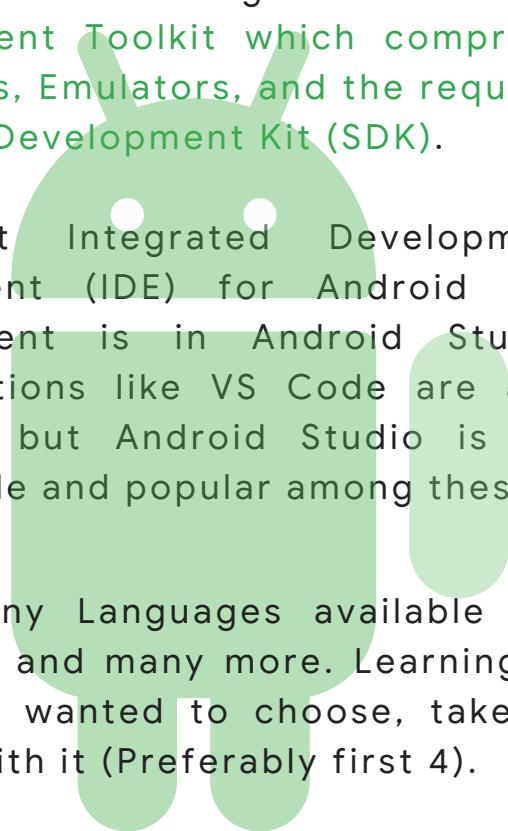


PROGRAMMING LANGUAGES FOR ANDROID APP DEVELOPMENT

BY: ONKAR

Android is a Software Development Platform Developed by Android Inc., a Software-based company located in Silicon Valley. It was acquired by Google in 2005. Later in 2008, Google Open-Sourced Android.

To Get started with Building Android Apps, you need to get the [Android Development Toolkit](#) which comprises Debuggers, Emulators, and the required Software Development Kit (SDK).



The best Integrated Development Environment (IDE) for Android App Development is in Android Studio. Other options like VS Code are also available, but Android Studio is the most stable and popular among these.

For Android Development there are many Languages available like JavaScript, Java, Kotlin, Dart, C#, Python, and many more. Learning all these languages is not necessary. If you wanted to choose, take up anyone among the Top and then proceed with it (Preferably first 4).

GETTING STARTED WITH UX DESIGN

BY: ANKIT

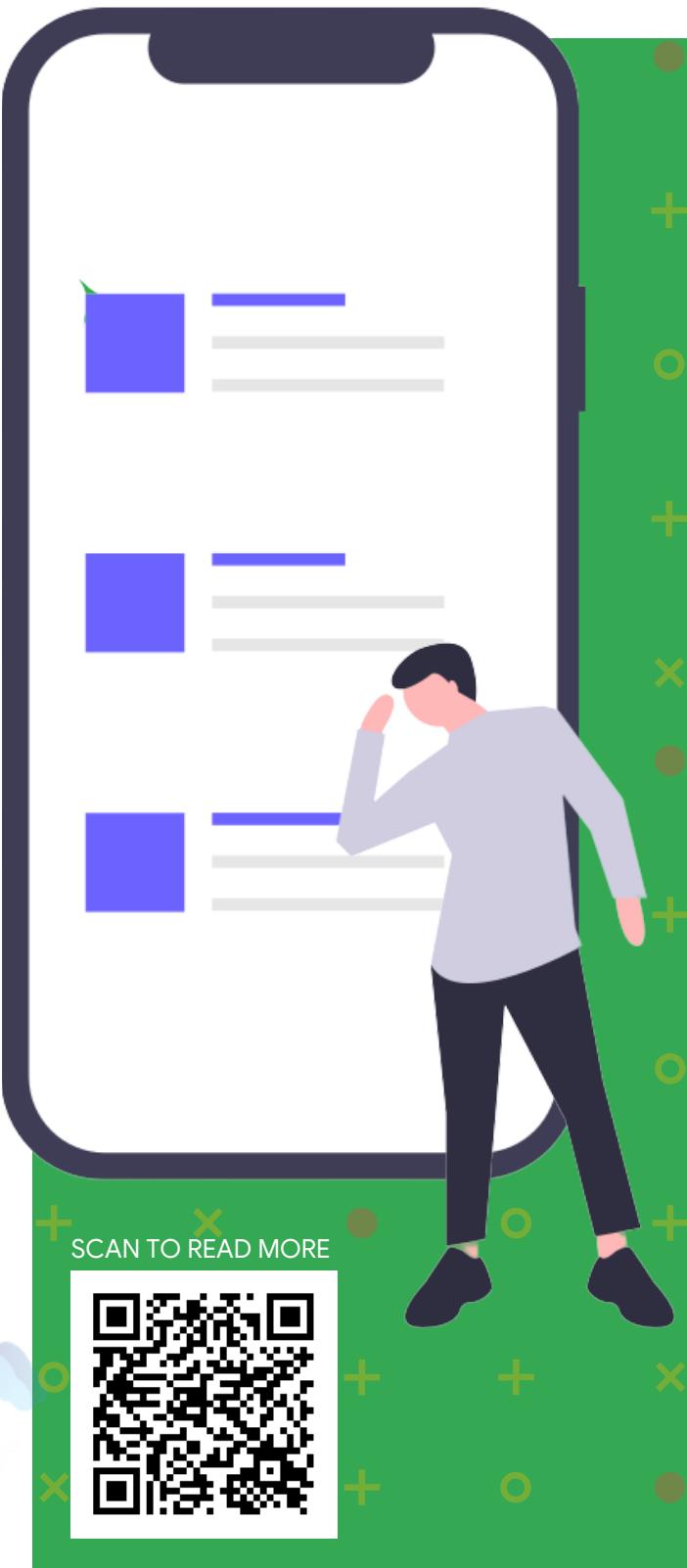
Solving real-life problems faced by people with the help of designing, problem-solving, observation, and understanding the user's perspective is called **UX(User Experience)** design.

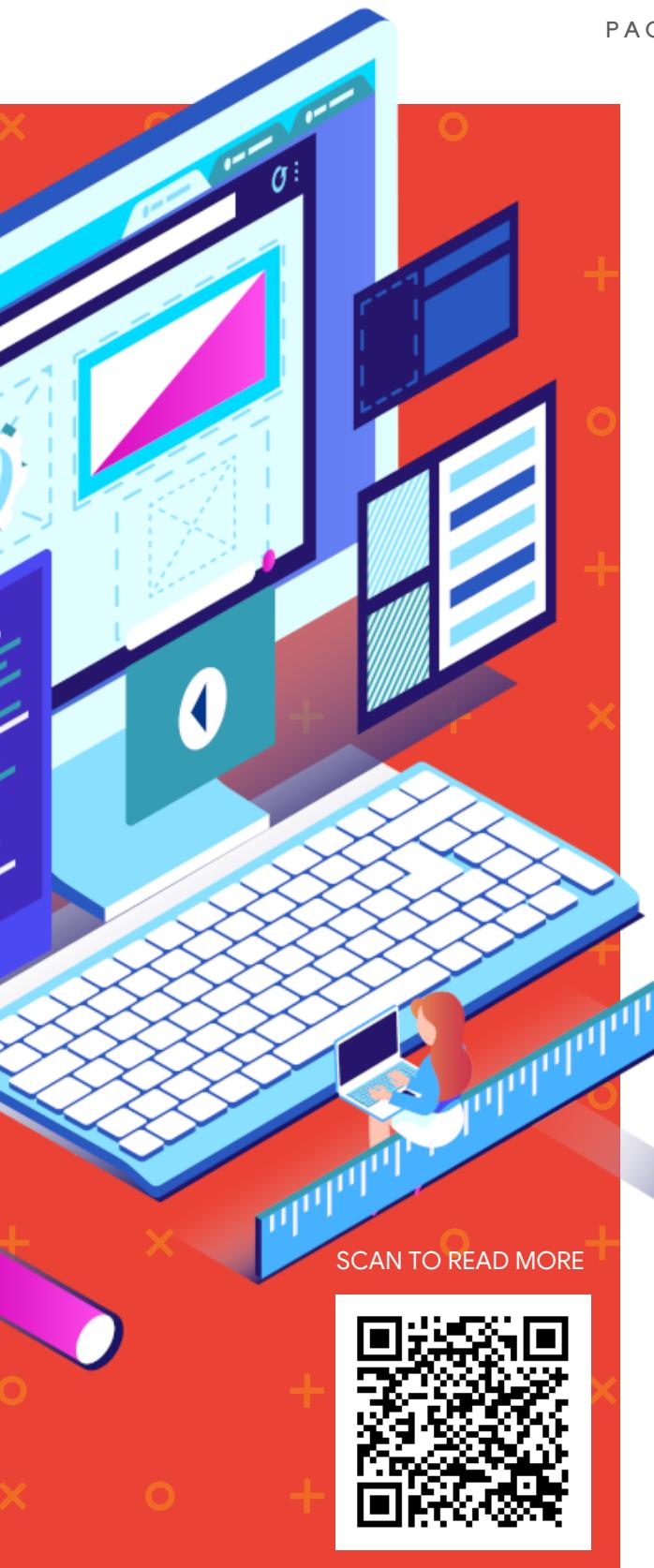
UX(User Experience) design is one of the most demanding skills in the tech industry, said a LinkedIn report. A good sense of design even helps one. **UX is the first step towards the development of any application.**

"People ignore design that ignores people." — Frank Chimero, Designer

To make your idea successful, you need to consider users' perspectives. This is what UX design teaches us. UX design is nothing but a research field where UX designers study how users think.

So these are some roles of UX designers, but since UX designer is a common word used by people who don't have enough knowledge of UX, they don't know that these all roles are not of a single person.





NATIVE VS CROSS PLATFORM

BY: DHRUV

What should you choose? Or What should you consider while mobile app development? What should you consider for developing your apps?

Native or Cross-Platform? Well, let's get straight to the point for which you have come here.

I will be giving a very diplomatic answer to start with, that both the platforms or development techniques are **equally good and important**. Both have their own pros and cons about which I will be discussing in the article further. I will be giving you a brief about both the platforms and then leave it to you to decide which app development method suits you best whether it is for learning perspective or job perspective. Development is the native or the traditional way of developing apps.

The base is the native operating system of the device on which the app is going to run. For example – for iOS, there is the programming language called Objective-C and swift. For Android, there are programming languages called Java and Kotlin.

JETPACK COMPOSE

BY: VISHESH

Google's first sentence describing Jetpack Compose on its landing page is: "Jetpack Compose is Android's modern toolkit for building native UI".

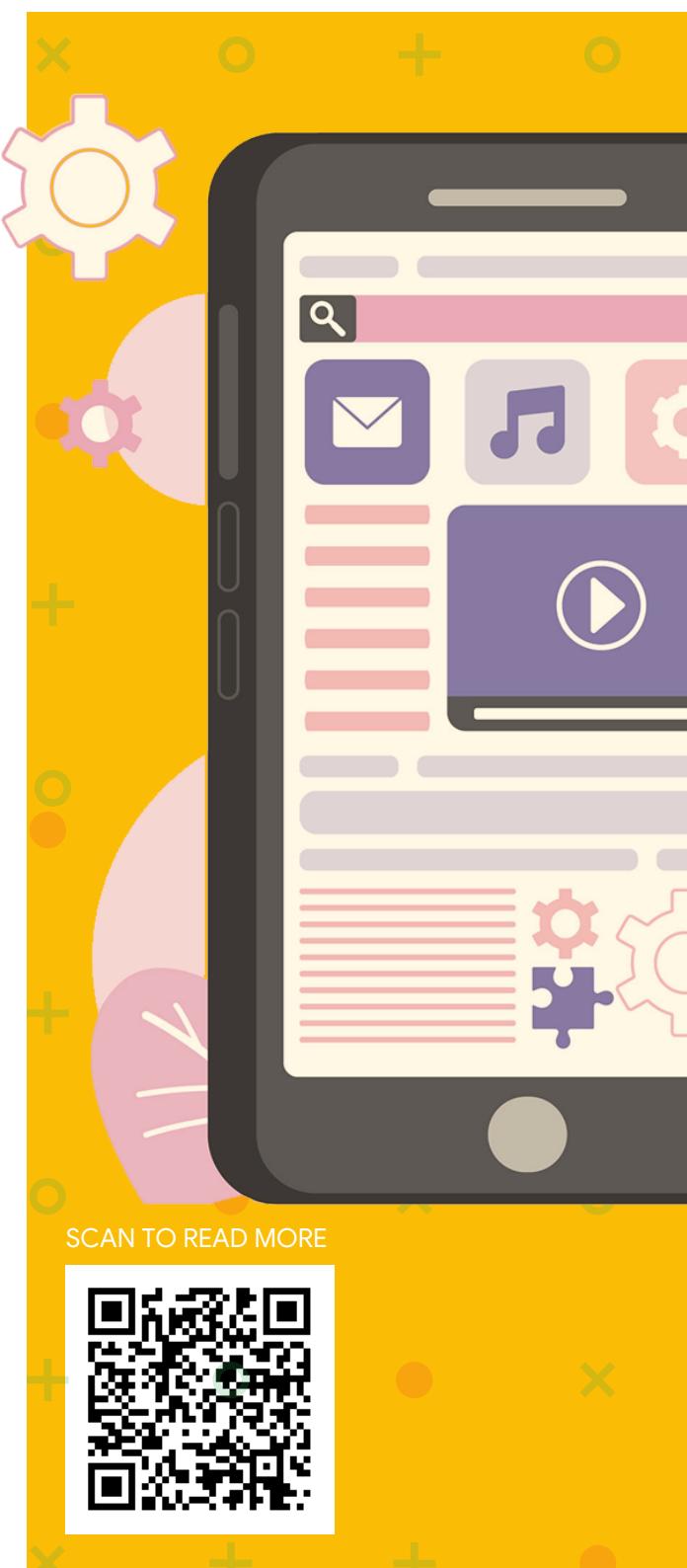
Jetpack Compose is not only available for Android but it can also be used as a proper Multi-Platform Tool. JetBrains have made Jetpack available at both Android Studio & IntelliJ IDEA.

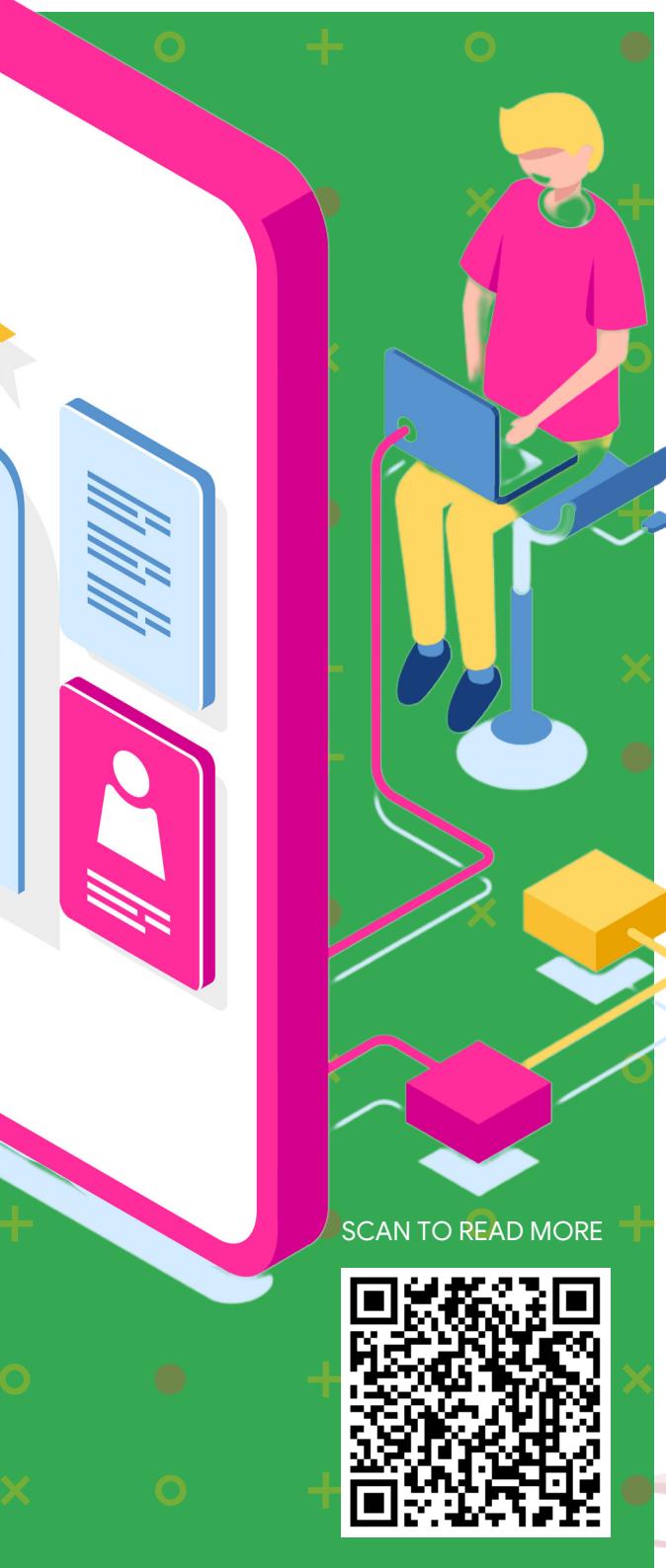
Important points regarding Jetpack Compose's positioning and architecture:

Compose is the future of native Android, and will become the target of the platform SDK's future work—it may divert resources from traditional development paradigms. Google expects Android UI development to migrate to Compose over time.

Compose is used with Kotlin and is intended to be used with Kotlin.

It has not closed the door to Android Java development. Nothing in Compose can "break" the traditional approach, but it provides further impetus for Android developers (if they have not yet switched from Java to Kotlin).





UX FOR PEOPLE AND SCIENTISTS ARE PEOPLE TOO!

BY: SHIREEN

Imagine inviting the biggest pop stars to perform in a large arena without amplifiers. That's the same as providing the best scientists to work with slow, unattractive, hard-to-use software.

With the shift to technology, we encounter user experience (UX) coming into the frontline for the life science industry.

UX for all is the end user's interaction with a product, tool, or system to understand users' involvement through research, organizing data, visual design, to meet user needs, and doing it daintily.

It is especially significant in the life sciences, where users are scientists in a complex environment, and more usable, efficient tools can facilitate innovation.

Today's technology makes it even easier to improve medical and healthcare UX. But you cannot just deploy technology for the sake of it. With cutting-edge research, design, and modernized technology tools to improve customer satisfaction, operational effectiveness, business growth, and profitability of the company.

PRODUCTION ML SYSTEMS: SETTING UP MACHINE LEARNING PROJECTS

BY: INDRASHIS

Machine Learning has been a buzzword for quite a while and tons of researchers have already pushed the boundaries of AI to unfathomable heights with very innovative as well as impactful breakthroughs in the field. But for these to impact and influence the real world, the models need to be integrated into ML-based systems in production. In recent years, enterprises and start-ups have started to adopt ML into their systems and have been quite successful. However, according to Gartner's predictions, "Through 2020, 80% of AI projects will remain alchemy, run by wizards whose talents will not scale in the organization", Transform 2019 of VentureBeat predicted that 87% of ML projects ultimately fail to deliver the intended results and will never make it into production.

ML systems in production is a complex challenge that binds together ML algorithms, Data expertise, Software engineering, and DevOps, and even continues further to maintaining data and models even after a model is shipped. In this article, I've discussed how to select projects and set them up for success.

Read More : tinyurl.com/production-ml-system





WHAT IS MOBILE CLOUD COMPUTING

BY: SANSKRUTI DUBE

Mobile Cloud Computing is the union of three broad domains: **mobile computing**, **cloud technology**, and **wireless networks**. This coalescence combines the attributes of all three fields. This concept is also known by its acronym MoClo.

Its primary objective is to validate rich mobile applications enriched with the best possible User Interface.

These applications are built, powered, and deployed using Cloud Computing technology. In MCC, mobile devices serve as a medium of display. This provides varied computational resources to mobile users. They are free from the restrictions of the mobile operating systems, computing, or memory capacity. Thus, allowing users to access applications that weren't possible otherwise.

Today we witness several smartphone operating systems: Google's Android, Apple's iOS, RIM, BlackBerry, Symbian, and Windows Mobile Phone. Almost all of these support third-party applications that are hosted using the Cloud.

TRANSFER LEARNING FROM YOUR PRE-TRAINED MODELS

BY: AAYUSH

This article articulates how to make a model using transfer learning in which both the pre-trained model and the new model are made by you.

Andrew Ng said in his interview in 2016 that [transfer learning after supervised learning will be the next driver of ML commercial success.](#)

At a time when transfer learning is so popular even, we can share our pre-trained models with the community and maybe train a big model once and keep on building new models on top of it.

First, you will have to download the dataset from this link:
<https://www.dropbox.com/s/pan6mutc5xj5kj0/trainPart1.zip>



SCAN TO READ MORE



Check Code!



DEPLOYING IMAGE CLASSIFIER ON THE WEB USING STREAMLIT

BY: YASH

Every day there are tons of deep learning and machine learning models being trained. Earlier, only people who had access to computers with high computational power could build these huge models but thanks to advancement in tech, we can now easily train these models on our laptops. But what's next? What do we do after our models are trained? Deploy! The models that we train are of no use if we are not putting them to some use. There are many ways to deploy your model. You can convert it to a tflite model to deploy it on a mobile device, you can make use of python and flask to deploy your model on the web. There is another very simple and efficient method to deploy your models and that is using Streamlit.

In this article, we will be looking at how we can deploy our Deep learning model on the web using Streamlit by writing just a few lines of code. We will be working on making a clean v/s messy room classifier and we will be deploying it using Streamlit.

WORKING AND CONCEPT OF BITTORRENT PROTOCOL

BY: ABHIJEET

Have you ever downloaded large files over the internet (like games or HD movies)?

If yes, do you download it over a browser? My personal experience with browsers is pretty bad for such tasks, with download fails after 50% in such files is quite common indirect downloads from the server. It is where BitTorrent comes into the picture. So, the first thing is what is BitTorrent?

BitTorrent is an efficient, decentralized way of distributing large online files to many people at the same time. Instead of downloading from a central server, all the people who want a file download a small part and then share the bits between themselves to reassemble the whole thing.

In simple terms, BitTorrent is a way in which a large file is broken into multiple smaller parts and downloaded separately via other clients in the network.



[SCAN TO READ MORE](#)





SIGNING OFF: DSC LEAD 2020–2021

BY: ABHISHEK

It's May 2021, and this is the time when the Leadership of Google Developer Students Clubs(GDSC) is transferred from one individual to an individual. This year was the [first time GDSC was established in VIT Bhopal University](#).

Being the Community Lead of such a wonderful initiative by Google was the best thing that ever happened to me. With such a wonderful journey, my tenure as DSC Lead came to an end. As I mentioned in the beginning, It has proffered me memories and learning for a lifetime.

Let's track this from the beginning, discussing how the seed was planted, how the journey began, the challenges I faced, and how time flew so quickly leaving us with remarkable moments, memorable experiences, and learning for life.

Throughout the article, I would be sharing my experience in a way so you can relate to them, and suggest to you some plan of action of how to deal if you get stuck in a similar situation.

WHAT COMMUNITY MEMBERS SAID

DSC VIT BHOPAL



SAKALYA MITRA

"It was a great experience with DSc with so many insightful events providing us the right guidance to kickstart journey in that particular field. The ML book club was fun even the ML talks ..I learnt a lot from them. Thanks for all such sessions."



ASHMITA PAL

"Loved the way DSC works..!! The events were insightful and really helpful. It was an enjoyable experience while learning new concepts as well. Moreover, the playlists and blogs were great as well."



RUSHAN KHAN

"My experience with GDSC VIT Bhopal has been great. They hosted many talks and seminars which were really helpful and so were their blogs and webinars with guest speakers."



JANHVI SINGH

"DSC has provided us with very valuable information throughout the session. The sessions were quite interactive and helped us gain knowledge in various fields like AI-ML and app development."



JACKSON JACOB SONDI

"DSC has been the perfect opportunity I needed to dwell and interact with people. Before DSC, I found it hard to find people with the same interests as mine in the field of CS. I was always on the lookout for different people, so that I could contribute and make projects with them.

I have to say, the Discord server of DSC has been the second-best tech support I could've ever asked for [first being Stack Overflow :)]. Every time when I had doubts regarding my projects, one person was always there on the server to help me out. With their help, I was able to create many end-to-end projects.

I also participated in my first hackathon, "HackDSC", whilst my time as a member in DSC VIT Bhopal. I was able to finish and successfully deploy my project. Although I couldn't win, the experience and thrill I got will forever stay with me. To sum it up in one word, it has been "LEGENDARY".

I don't think there will ever be a community as helpful and pragmatic as DSC VIT Bhopal. "



DEVELOPER STUDENT CLUB TEAM 2020-21



DSC VIT BHOPAL

CORE TEAM



Abhishek Srivastava



Sarthak Kundra



Aman Sharma



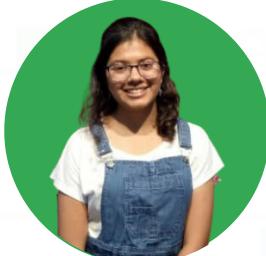
Vaishnavi Patel



Hemang Maan



Siddhant Singh



Ishika Kulkarni



V Surya Kumar



Anjali Singh



Smit Barmase

TEAM MEMBERS



Pratibha Tiwari



Sanskruti Dube



Shireen Soporee



Manglam Tripathi



Nandita Jain



Sidhved Warik



Aditya
Vishwakarma



Pranshu Khare



Chaitanya Kedar
Sapre

TEAM MEMBERS



Aditi Kurutala



Abhijeet
Chatterjee



Neel Modi



Aadarsh S



Saket Upadhyay



Yash Sinha



Aayush Mishra



Indrashis Paul



Laavart

TEAM MEMBERS



Kripansh Sharma



Sajal Gupta



Shreyansh Kumar



Ghanisht Goyal



Vineet Khola



Vishesh Tripathi



Onkar Shaligram



Ankit Sagar



Dhruv Mehta

**!FALSE
IT'S
FUNNY
BECAUSE
IT'S
TRUE!**

What is a Journey?

*It is not the distance travelled, Neither the time spent.
It is beyond the spatial factors. It is what happens on
the way. It is the things that shape you. At the end of
the journey, you are not the same.*

~ Mayor Richard Wilkins III

**H
I
T
A
N
K
S
O
U
!**



HANDS BEHIND DSCZINE

HEMANG
ISHIKA
KRIPANSH
LAAVART
PRATIBHA
SAJAL
SANSKRUTI
SHIREEN



Developer Student Clubs
VIT Bhopal University