



**VIDYABHARTI TRUST COLLEGE OF  
BUSINESS, COMPUTER-SCIENCE AND RESEARCH**  
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Get to know more about **IT**

## **RELATIONSHIP BETWEEN IOT AND DATA SCIENCE**

IoT is concerned with machines and networks. Machines communicate with each other, the process of communication depends on data. Entire process uses data as well as generates a very huge amount of data. When it comes to analysis of huge amounts of data in real time, it becomes very difficult for humans to assess data and analyse it properly in real time. Data science plays a very important role here. To interpret data, to analyse data and to visualize data, different algorithms of data science makes it really easy. Data science takes and utilises the data collected through IoT systems and technology, and transforms that through analysis and visualisation into something that can create value for a business. Data science serves a crucial value creation function for IoT systems. The data science component allows the value to be extracted and understood from the IoT technology use and deployment.

Lets understand it with one example. In a smart city, a vehicle can set a path of journey. Communication between IoT devices can track the amount of vehicles passing on a particular road. IoT devices collect data and share as well. When it comes to the whole city, data of a particular road, number of vehicles on road at that time and traffic strengths will generate a very huge amount of data. Now with the help of data science, we can predict traffic strength on a particular road at a particular time. It becomes very easy to manage traffic, once one gets an idea before the situation becomes worse. If data is the fuel that IoT runs on, data science algorithms turn that fuel into useful information.

**BHAVIK AJITBHAI CHAUHAN**  
**ADHOCK LECTURER**

## **UNKNOWN FACTS ABOUT WHATSAPP**

1. WhatsApp was founded by the former Yahoo employees Mr. Brian Acton & Jan Koum.
2. It was initially only made for IOS users.
3. On marketing and user acquisition, the company did not invest a dollar. They invested instead for advancement.
4. On June 2009, the instant messaging platform had 250,000 users worldwide. By December 2013, the figure had increased to 400 million.
5. The organization rejected a \$10 billion Google bid, but in February 2014, they finally accepted a \$19 billion Facebook offer.
6. Two billion minutes are consumed mostly on app every day
7. On the smartphone, 55 million video calls are made each day. The conversations last a maximum of about 340 million minutes.
8. It's the most commonly used application on the world for text messaging. It has an extra billions of users than Facebook Messenger.
9. WhatsApp seems to be very generous to its users because it also avoids advertising. But still, because of the billions of downloads every day on Android phones alone, WhatsApp receives \$2 billion and more by end of each year.
10. There are at least 5 billion WhatsApp groups created from 2009 until now.

**CHIRAG DEVENDRABHAI MEHTA**

**ASST. PROFESSOR**

## TOP 05 ANDROID APP OF THE MONTH OCTOBER 2021

### 1. Fanya

There are tons of to-do list apps that are available on the Google Play Store, but only a few of them stand out — amongst them is Fanya. The UI of this app is minimal. Everything that you'll ever need in a task manager app is pretty much on the home screen itself with a little touch of colour-coded tabs.

If you hit the calendar icon, you can see the entire calendar schedule right in front of you with your tasks for the day marked below. You can switch between the dates to check your tasks for the day. You can also add a task by hitting the plus icon down below and following that up by writing down something you need to get done by the end of the day, followed by a short description of the same and the time slot it needs to be done by. You can also add the tasks to different categories so that it is more neatly organized.

The app also allows you to set a reminder, not a lot of apps allow this in the free version. You can then go ahead and allot different time slots for your task and depending on that it'll show up on your timeline.

### 2. Privacy Guard

Privacy is a serious concern and with most of the apps asking for various permissions, it's quite a vulnerable field. However, this app might help you collate all the necessary permissions in one place.

Privacy Guard brings all of Google's personal settings under one roof so that you do not have to meander around the settings every now and then. The app showcases all the Google Personalization Ads that you've turned on based on your web activity. You can even check which apps are tracking your location history and your web activity. In case you need to remove access from some apps, then you can definitely do it by clicking on that app and hitting the 'remove access' button.

### 3. Mubert

Have you ever heard of a music player app that uses AI to play music? No? Me neither, this is a first and I absolutely love it. Mubert basically uses AI to co-create music along with creative artists.

You can choose different types of music depending on your mood, music taste and activity. The app will for sure play you a unique song that has most likely never been played before. You can check all the categories from this tab and choose depending on your activity.

If you are in a gym and need a quick cardio session, the sports category might help you. Or, if it's raining outside and you need to chill out on the balcony — the Lo-Fi category will definitely help you soothe into nature. The app's UI is not one of the best — but it does its job well. You should definitely give it a try.

#### **4. HellRider 3**

I'm sure you love to play games on your smartphone, especially when they are this much fun and come in a small package. HellRider 3, as the name suggests, is based on a bike driving game wherein you have to complete particular missions to increase your level. It has a storyline that delves into the gameplay.

You have to dodge the enemies while on the bike and also be safe from the gunshots and bombs they fire at you while also shooting them in return in order to proceed to the next level. The graphics are decent and almost all the recent Android smartphones should be able to run this without any hiccups. Well, if we ain't getting road rash on smartphones, this might be our next and final resort.

#### **5. ClipDrop**

If you are someone who clicks a lot of product shots from your smartphone to maybe share them with your friends, for work or for your e-commerce business — ClipDrop will be a time-saver for you. The app basically turns your product shots into PNG and masks out the image from the background with proper feathering. Although the feathering isn't very consistent, I hope they can improve that with future updates. You can also resize the frame depending on the product you want to showcase

**PATEL REEMA RAKESHBHAI**

**19BCA97**

## **TOP 10 IOS APP OF THE MONTH OCTOBER 2021**

### **1. Yesim**

Are you a frequent traveler or a business person who makes a lot of trips abroad, well Yesim is for you. There's no need to buy a new SIM card for every country you visit or load international roaming plans for mobile data. Yesim uses your iPhone's eSIM capability to cater to more than 120 countries across the globe. Simply install the app, choose the country you are visiting, choose the plan and install it right away.

There's no need to pay extra for international roaming. Yesim offers you a bundle of data plans ideal for business and casual travelers for short and long journeys.

### **2. Invoice Maker**

Creating invoices has never been so easy with the Invoice Maker. The app saves a lot of time you would otherwise spend on creating invoices. It lets you create professional invoices with a few taps where you can add a bunch of details for the service or product you sell or otherwise. It lets you share invoices right away and with its reporting feature, everything is available at just a single glance.

The app has invoices that look professional with custom-made branding and design along with photos and signatures that you can add with your invoices. The app is available on a freemium model so you will have to subscribe to the premium one once you have used free credits.

### **3. 3D Maps**

Google Maps is getting better by the day but there are a few alternatives if you are not a fan of Google Maps or Apple Maps. 3D Maps is great for those who want to wonder whether it is for running, biking, hiking, and other adventures outdoors. The app reimagines maps offering 3D maps that you can use to gauge the elevation and the route to take. The app lets you access 3D terrain and lets you plan your trip even before visiting the place. You can take a backup of the trips on URL or email or other platforms.

The app gives you the distance traveled and speeds as well. It has searchable maps in offline mode so you don't have to cling to Wi-Fi or lose crucial battery juice on mobile data outdoors.

#### **4. Peak**

The human brain is capable of doing so much but many fail to unlock the capability. Peak is an app that improves mental health with more than 45 games that are both fun and brain-stimulating. Tap the hidden potential of your brain by unlocking parts that target sections responsible for problem-solving, attention, memory, mental agility, language, and so on. You can compete with your friends and have fun all within the app.

Peak gives you statistics and insights on how you performed against others playing the same games so far. A Peak Pro subscription unlocks a few more bundles of features within the game.

#### **5. Zillow**

Zillow is a property finder's app that assists you to find homes and apartments to rent, sell, or buy. Just like many apps, Zillow is restricted to the United States only so you can't check out or list properties outside the U.S. but you can dig into hundreds and thousands of properties in the country.

Zillow offers you features like 3D homes, co-shopping, neighborhood details, self tours, and updates the listings constantly. It is surely a to-go app if you are searching for a property to sell/buy/rent in the country.

#### **6. Celestial Navigations**

Celestial Navigations app on your iPhone lets you calculate to reduce a sextant reading. It finds a perpetual nautical almanac. Identify navigational stars simply by pointing your phone to the sky. You can save sextant readings for later use. The app requires the use of sextant to use the app fully. The app is available at \$1.99 so there's no free version at the time of writing this.

## **7. GIF Maker**

If you aren't into GIFs and memes, I won't exactly say you are making the most of your social media. GIF Maker is a great app that you can use to create memes and GIFs as well as Boomerang videos with ease. It converts photos and videos into GIFs for sharing online. It has a myriad of features including adjusting speeds, filters, add text and format, sticks and emojis, and more.

## **8. Expire Alarm**

Keeping a tab on expiration dates for anything you buy isn't that easy. Of course, you can just look at the expiration date but that's too much to ask when you are busy. Expire Alarm lets you enter details on the food items you bought, set their expiration date, and get notifications once you are near expiry for any product.

## **9. Notability**

One of the most powerful note-taking apps on iOS, Notability is great for students, business professionals, teachers, and someone who wants to paint a draft of ideas. The app offers a tonne of tools for journaling and note-taking with continuous page scroll and more. You can add photos, web pages, GIFs, and more on the notes.

## **10. ClipDrop**

Pick objects using your iPhone's camera via ClipDrop and you can use it to edit or make something out of it on the desktop app. The app uses AR to pick out objects, isolate them from the surroundings and place them wherever you want. ClipDrop has plugins for platforms such as Figma, PowerPoint, Google Docs, Canva, among others.

**PATEL VRUSHANGI MEHULBHAI**

**19BCA106**

# BEST CELL PHONE OF THE MONTH OCTOBER 2021

## iPhone 13 Pro Max

The iPhone 13 Pro Max is Apple's biggest iPhone, but it doesn't have any advantages over the iPhone 13 Pro in terms of features, unlike in previous generations. It's heavy and unwieldy, but the big display is great for games and the increased battery capacity allows for nearly two full days of regular use. The display gets a 120Hz refresh rate, but there's still an unsightly notch that interferes with movies. Performance is great thanks to the A15 Bionic SoC. You can choose between 128GB, 256GB, 512GB and 1TB storage options. The main new features are camera-related: Cinematic Mode and Photographic Styles. The camera hardware has also been improved, compared to the previous generation. You can now take macros and the optical zoom goes up to 3X. Although incredibly expensive, the iPhone 13 Pro Max represents the best of the best in the iPhone lineup.

<b>iPhone 13 Pro Max Specifications</b>	
Display	6.70-inch, 1284x2778 pixels
Processor	Apple A15 Bionic
Storage	128GB
Rear Camera	12MP + 12MP + 12MP
Front Camera	12MP

**MANIYA JENIL NARESHBHAI**

**20BCA38**

## **BEST LAPTOP CONFIGURATION OF THE MONTH OCTOBER 2021**

### **New Apple MacBook Pro with Apple Laptop**

- Processor: Apple M1 chip
- Speed: 2 GHz
- Graphic card: Apple 8-core GPU
- Screen Size: 13.3 inch
- Memory and Storage: 8 GB RAM and 256 GB SSD
- Battery Backup: Upto 20 Hours

**RAIN MAHAMADSADIK ASINBHAI**

**19BCA123**



**MISTRY UNNATI BHARATBHAI**

**19BCA43**



**MISS. SAIFALI TAMAKUWALA**  
**TEACHING ASSISTANT**