



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (AUTONOMOUS)

[Affiliated to University of Madras – Linguistic Minority Institution]

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PG & Research Department of Master of Computer Applications

W@B@tz

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MESSAGE FROM THE SECRETARY'S DESK

It gives me immense pleasure to know that the Department of MCA is publishing the newsletter "W@B@tz" covering the activities conducted by the department. I hope that the newsletter will be a platform for showcasing the achievements and efforts of the faculty and students of the department. Besides I am sure that the students and staff of the department made use of this opening test and sharpen their intellectual skills to reach an extensive readership. I congratulate the editorial team, staff and students of the MCA department for releasing this newsletter.



MESSAGE FROM THE PRINCIPAL'S DESK

It is a matter of great pride and satisfaction for D.G.V.C. to bring out the annual newsletter "W@B@tz" released by the Department of MCA. Achievements of students in curricular, co-curricular and academic excellence are highlighted through this newsletter. I hope that the publication of the newsletter shall rightly reflect the clear picture of all sorts of performance of the department and its efforts in the overall developments of the students. I congratulate the editorial board on its tireless efforts in bringing out this newsletter.



MESSAGE FROM THE HOD'S DESK

The Department of MCA is one of the pioneering departments of this institution. We offer our students a good educational experience with the latest requirements in IT as their academic subjects. The department also conducts various programs to enrich the technical skills of the students. It is indeed my great pleasure that our department is publishing its first annual newsletter "W@B@tz" inscribing every aspect of departmental activities and events held from the academic year 2019-2021. The newsletter aims to bring into view various happenings in the department. I congratulate the editorial board who has taken initiative for publishing this newsletter.



ABOUT THE DEPARTMENT

The department of MCA was started in 1987 with an objective to provide a conducive ambience for learning management & career-oriented subjects. The department has fine-tuned the curriculum by introducing specialized subjects by the requirements of the industry from time to time and to inculcate knowledge to the students in the field of information technology and current trends

OBJECTIVE

The main objective is to make students technically talented in the information technology field. The department has tied up with IIT Mumbai- (spoken tutorial project) which offers certificate courses to help the students to gain exposure towards leading its tools and languages which is part of the curriculum to earn credits. The students are advised to enroll for online MOOC courses to gain knowledge. The hall mark of the department is regularly updating the curriculum in consultation with IT experts who are members of Board of Studies (BoS) to introduce the current technologies prevailing

in the market. This enhances our students to upgrade their skills for employment

MISSION

- To organize workshops at regular intervals to bridge the gap between academia and industry.
- To enable the students to be industry-ready by developing a state-of-the-art curriculum in tune with industry requirements
- To facilitate the students to excel in the challenging scenario by providing the necessary skill set.
- To make students understand the concepts using innovative teaching materials.

VISION

- Empower every student to be innovative, creative and productive in the domain of computer science by imparting quality education, developing skills and inculcating human values.

DEPARTMENT ACTIVITIES FROM 2019-2021

Webinar on Cloud Based Google Services



The webinar was organized by the department on 12-02-2021. The resource person Dr. Urmila Shrawankar is a Professor, Department of Computer Science & Engineering, GHRCE, RTM

Nagpur University, Nagpur. Her area of interest is advanced operating systems, distributed and parallel computing, real-time computing and cloud computing.

The presentation was based on the importance of cloud computing and the various services provided by Google. She has given an overview of Google services such as Google Scholar, Google analytics, Google map, Google AdWord and so on. The session was informative and the participants were benefited by gaining knowledge on Google services and their purposes.

Webinar on Keras Fundamentals for Deep Learning

The webinar was organized by the department on 27-02-2021. The resource person Dr. J Bhuvana is an Associate Professor in the Department of Computer Science and Engineering, received her Ph.D. from Anna University, Chennai in 2015, obtained a master's degree, ME in CSE from

Annamalai University, Chidambaram in 2004 with First class and Distinction. Her research interests include Deep learning, Multiobjective optimization, Memetic Algorithms, Evolutionary Algorithms, Machine Learning.

The participants gained knowledge on deep learning, the architecture of deep learning and Keras libraries. The resource person also gave real-time examples then and there. Participants gained knowledge on the programming model in Deep learning using Keras APIs.



Seminar on Introduction to Cloud Computing and Cloud Services

The seminar was organized by the department on 05-07-2019. The resource person Mr. Prashanth Parekh is a Senior Director-Technologies, CTS, Chennai. He is an expert in deploying applications in Cloud platforms. Mr. Prashanth during his lecture clearly explained what is a cloud? about its architecture, various services provided by the cloud and the cloud service providers in the market. Before concluding his speech, he highlighted the job opportunities available in the cloud domain and the skill set required to meet the industry's demands.

The P.G students of the department thoroughly enjoyed his lecture and raised queries after the talk concerning upgrading their skills on a cloud.



International Workshop on Applications of IoT



The International Workshop on the Applications

of IoT was organized on 16-07-2019. The resource person Mr. P. Thirumurugan is the Head of Computer Networks Section, Department of Information Technology, College of Applied Sciences, Sohar, Oman. He started the session by giving an introduction to the Internet of Things (IoT) technology, popular terminologies, and technologies about IoT, and its real-time applications. He also conducted a hands-on session relating to IoT by illustrating solar panels as an example. Participants are benefited from this workshop by gaining knowledge on IoT.

Workshop on Introduction to Big Data Analytics

The two days workshop was conducted by the department on 1-8-2019 & 2-8-2019. The resource persons were Mr. Vidhya Sagar and Sundari from HTC Global services.

The presentation was an overview of big data, its importance and how to analyze the data. They gave hands-on training in Big Data using the Hadoop tool. Our Students gained knowledge on the Hadoop tool which will be useful for their academic project and further for their career as a data analyst.



Guest Lecture on Introduction to Data Analytics

The Guest Lecture was organized by the department on 20-07-2019. The resource person was Ms. P. Priyadharshini, alumni, Data Scientist (Level-1) in Indium Softwares, Chennai.

She started the session with the introduction to data science indicating its key features and why data is very important in nowadays scenario. Also, detailed the concepts of data analytics starting from data capture to insights obtained from data. Further, she gave tips on how to prepare for the data science domain and described the expectations of the fresher from industry and

industries expectation from fresher. The students have understood the concepts of data analytics and some of them gave their willingness to perceive their career in data science.



Guest Lecture on Introduction to Full Stack Development and DevOps



The Guest Lecture was conducted by the department on 22-08-2019. The resource person was Mr. K. Sakthivel, alumni, Co-Founder, and CEO, MANTT. The topic was the need of the hour. The students benefited to know from the expert how to tune themselves for the industry needs. The lecture was about placement guidance for the students if they undergo Full-stack Development and DevOps course.

Guest Lecture on Personality Skills

The Guest Lecture was organized on 29-08-2019 under the name “Motivational Talk”. The resource person was Mr. Mathivannan Elangovan, Vice President - Head of Learning and Development @ Sify Technologies Limited. As a part of the Student Orientation Programme for I MCA students of the 2019 batch, he delivered an excellent talk about how students should handle their curriculum, how to face success and failures in life, and what are the opportunities that span before them to enlighten their future.



Workshop on Personality Development



The soft skills workshop was conducted on 03-09-2019 by the department. The resource person was Mrs. Sundari Subramanian, a professional soft skills trainer.

She explained to the students the necessity of developing the soft skills in them. She also added about the importance of communication and personality.

Workshop on Soft Skills

The workshop was conducted on 26-09-2019. The resource person was Mr.R. Ramakrishnan, Soft Skills Corporate Trainer, Chennai. He has trained many corporate trainers with his rich experience.

He gave a demo to students by forming the group and how to face interviews. Also explained the body language and taught students how to prepare a resume and how to highlight the skills in that. He formed students into groups and performed group discussions. The workshop was useful and

informative to our students. The queries raised by the students were well explained by him. Students learned more from the trainer.



Workshop on MySQL



The two days workshop was conducted on 30-09-2019 & 05-10-2019. The resource person was Mr. Hemanth. The objective of the workshop was to facilitate the participants to get familiar with the concepts of MySQL. The workshop started with

interactive hands-on sessions in MySQL and the basic command operations. The students moved on with keen interest in the topic and enthusiasm with its exposure through interactive lecture sessions.

The lecture videos had good multimedia content to help students grasp the material easily; hence providing a good platform to learn and work on individually and good career guidance by experienced faculty was also given. The workshop comprised of the active participation of students. The resource person extended appreciations for the same and recommendations were made when needed.

Web – Intercollegiate Fest

The MCA department conducts an inter-collegiate technical fest “WEB” in the even semester of every academic year. Web-18 was conducted grandly. The event is comprised of 6 technical and 6 non-technical events. More than 50 colleges participated to showcase their talents in the technical and non-technical events organized by our department students. The overall champion trophy was won by CTTE College for women in

2018.



STUDENTS CORNER

WOMEN'S SAFETY APPS

Women's safety has become the utmost priority of the Indian government considering the increasing cases of crime against women. There are various safety apps present on the play store. The

fundamentals of most apps are similar — a user-decided list of emergency contacts to alert, and transmission of GPS-determined location — but the newer ones are easier to use, almost intuitive.

Safetipin: Safetipin is one of the great options when it involves safety apps for women. The app is meant to keep in mind the concept of private safety. It incorporates all the essential features like GPS tracking, emergency contact numbers, directions to safe locations, etc. The app also pins the safe areas alongside their safety scores to travel at the time of any problem. It also enables the users to pin unsafe areas and help others. Safetipin is out there in Hindi, Bahasa and Spanish, besides English.

Raksha: The app comes equipped with a button, which can send alerts to your loved ones together with your location during a situation of distress. You'll select the contacts, ready to "> “ which can be able to see your location. Moreover, if the app is transitioned and isn't working then also you'll be ready to send alerts by simply pressing the quantity key for 3 seconds. The app also has SOS functionality and may also send SMS if stuck during a non-internet area.

Himmat: The Himaat app may be a free safety app recommend for women by the Delhi Police. First, the user should register at the Delhi Police website. Once the registration is complete the user will receive an OTP, which has to be entered at the time of completing the app configuration. During a problematic situation, the user should raise the SOS alert from the app, the area information and audio-video are transmitted to the Delhi Police control room.

Smart 24x7: The Smart24x7 app is supported by the varied states' police just to make sure the security of women and senior citizens. The app sends panic alerts to emergency contacts during a problematic situation. It also records voices and also takes photographs during the panic situation and transfers these to the police. It also has call center support, which can hunt the first movements of the user. Users just press the push button and choose the sort of service required then finally click on submit.

Shake2Safety: The Shake2Safety app is easy to use. The user just must shake their smartphone or simply press the facility button fourfold to send an SOS text or call to the registered numbers. It works with the locked screen on and even without an online connection. Moreover, the users also will have the power to activate or deactivate the choice of shaking the device to send an alert. The app also can be utilized in case of an accident, harassment, robbery or any natural calamities.

bSafe: The bSafe app ensures the security and security of girls. It allows the contacts to follow you through a live GPS trail and also set a timed alarm that matches off if you haven't 'checked in'. Moreover, it'll also make your phone ring with a fake call and also notifies the emergency contacts with the situation, video, and even siren alongside this, there's also a Guardian Alert button, which can immediately tell your friends or relations with the GPS location and video at the time of distress.

R. Pawan, II MCA

PROGRESSIVE WEB APPS (PWA)

Whenever you go to a website, it's up-to-date, and your experience with that site can be ephemeral or permanent as you'd like. Web applications can reach anyone, anywhere, on any device with a single codebase. Platform-specific applications are known for being incredibly rich and reliable. They're ever-present, on home screens, docks, and taskbars. They work regardless of network connection. They launch in their own standalone experience. They can read and write files from the local file system, access hardware connected via USB, serial, or Bluetooth, and even interact with data stored on your devices, like contacts and calendar events. In these applications, you can do things like taking pictures; see playing songs

listed on the home screen, or control song playback while in another app. Platform-specific applications feel like part of the device they run on. If you think about platform-specific apps and web apps in terms of capabilities and reach, platform-specific apps represent the best of capabilities whereas web apps represent the best of reach. So where do Progressive Web Apps fit in?

Progressive Web Apps (PWA) are built and enhanced with modern APIs to deliver enhanced capabilities, reliability, and installation easily while reaching anyone, anywhere, on any device with a single codebase. Progressive Web

Apps are web applications that have been designed so they are capable, reliable, and installable.



These three pillars transform them into an experience that feels like a platform-specific application. Progressive Web Apps provide you

with a unique opportunity to deliver a web experience your users will level.

Using the latest web features to bring enhanced capabilities and reliability, Progressive Web Apps allow what you build to be installed by anyone, anywhere, on any device with a single codebase. The numbers don't lie! Companies that have launched Progressive Web Apps have seen impressive results. For example, Twitter saw a 65% increase in pages per session, 75% more Tweets, and a 20% decrease in bounce rate, all while reducing the size of their app by over 97% after switching to a PWA.

G. Arulvin, II MCA

MACHINE LEARNING AUTOMATION USING CLOUD COMPUTING TECH

Cloud Computing Service

Having a car is exciting — we will have more control over it, It is much better in many aspects and make us feel comfortable. But owning a car has many drawbacks. Pay for parking, fuel, maintenance, repairs, etc. And there we have our other option "PUBLIC TRANSPORT", we can able to utilize public transport to reduce our cost, stress, still yet comfortable. Here we don't want to feel about fuel maintenance, insurance, parking, and other things. This is what exactly cloud computing is. A Cloud Computing service is delivers computing services like —including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet (“the cloud”).

Using the cloud, you can pay for the service either on a subscription basis or pay per use basis. This makes the cloud computing service providers look unique in the market. We don't need to worry about maintenance, repairs, upgrades, cybersecurity, etc. Everything is taken care of by the providers and we receive quality services consistently. The transaction-based paying model in the cloud computing service is the only reason behind more and more organizations are now realizing the value of using cloud computing. One can use the service from anywhere as long as you have internet access.

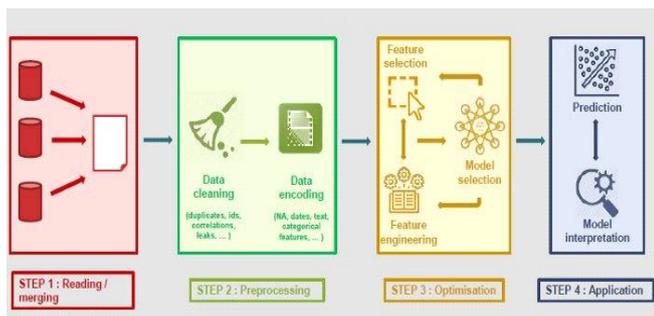
When your cloud needs scalability, the server capacity scales up and down accordingly to our needs and we don't need to worry about the server

scalable costing. Cloud provides developers to develop, deploy Machine learning pipelines in an automated way that creates an ease of way in AutoML and currently the big shot in the market. How Cloud introduced the Next Wave of Machine Learning? Machine learning has provided some significant breakthroughs in diverse fields.

In recent years in the field of financial services, healthcare, retail, transportation, etc and the results have been promising. The traditional ML process is human-dependent, and not all businesses have the resources to invest in and it's huge time-consuming. AutoML(Cloud Automation MACHINE LEARNING) becomes a solution to the problem. Two trends have recently become apparent in data science and machine learning. Data analysis and model training is done using cloud resources. Machine learning pipelines are algorithmically developed and optimized in the cloud. Constructing a machine learning model manually is a multistep process that requires domain knowledge, mathematical knowledge, and computer science skills – which is a lot to ask for a company. And, there are countless opportunities for human error and bias, which degrades model accuracy and devalues the insights from the model.

Automated machine learning (AutoML) is the process of automating the end-to-end process of applying machine learning to real-world problems. AutoML makes machine learning available in a

true sense, even to people with no major expertise in this field. The stages of machine learning model development consist of the following four processes:



Here is one example of how AutoML is fundamentally changing the face of ML-based solutions today. Mercari is a popular shopping app in Japan that has been using AutoML Vision (Google’s AutoML solution) for classifying images. While their model—trained on TensorFlow—achieved an accuracy of 75%, AutoML Vision in advanced mode with 50,000 training images achieved an accuracy of 91.3%, which is a huge success. AutoML enables people from diverse backgrounds to evolve machine learning models to address complex scenarios.

Google Colab Platform: Google Colaboratory service is like online Jupyter Notebooks in Python which run on Google’s servers, can be accessed from anywhere with an internet connection, are free to use, and are shareable like any Google Doc. Google Colab has made the process of using cloud computing a breeze. It provides continuous 12-hour runtime. Here are some of the AutoML framework lists that tend to automate some or the entire machine learning pipeline. MLBox is a

powerful automated machine learning Python library, it provides the following libraries:

AutoML Frameworks

MLBox

- Super Fast reading and distributed data preprocessing / cleaning / formatting.
- Highly compact feature selection, leak detection, and accurate hyperparameter optimization
- Good predictive models for classification and regression (like Deep Learning, Stacking, LightGBM,...)



Auto-Keras



Auto-Keras is an open-source library built by DATA Labs AutoML. Auto-Keras, which is based on the Keras deep learning framework, provides functions to automatically search for architecture and hyperparameters for deep learning models. Auto-Keras tends to simplify the ML process through the use of automated Neural Architecture Search (NAS) algorithms. The main purpose of AutoML is to automate repetitive tasks like pipeline creation and hyperparameter tuning for accuracy metrics. AutoML also aims to make the technology available to everybody rather than a select few.

U. Nithish Kumar , II MCA

PROGRAM RULING 2020

Dart Dart is one of the simplest languages you'll be able to learn in 2020. It's a good first language for beginners. Dart is a programming language originally developed by Google and later approved as a typical by Ecma (ECMA-408). This language is developed to build internet, server, desktop, and mobile applications. Dart will compile to either native code or JavaScript. It supports interfaces, mixins, abstract categories, reified generics, and sort abstract thought.

How did Dart start?

Two engineers from Google launched “Dart”, on 10th October month of 2011, at the GOTO conference, as a fresh programming language designed to assist developers to build web applications. Dart 1.0 was free on November 14th, 2013. And as continually, everything that comes out of Google is received with nice interest within

the school world. Truth to be told, the first Dart project was inquiring stagnation since its beginning, (because at the start, they wished the Dart Language to switch JavaScript, or act like CoffeeScript). However, most have modified since then. Dart is being enforced in an exceedingly wide selection of comes.

1. *Dart is versatile:* Dart may be a versatile programming language therein you'll be able to write the code so run it anyplace with no limitations whatever. Mobile apps are written in Dart with Flutter square measure cross-platform native apps; so that they will run on both android, iOS and you'll be even able to write web apps which code can run on any browser.

2. *Dart embraced the open supply system:* Developers love open supply. The whole tech industry is in love with open source technologies. Dart feels like an on-the-spot rival to Java, which may be a proprietary language Google is currently having problems with, and in many ways, Dart may be a thousand-fold higher than Java.

3. *Dart is pretty easy to learn:* Learning a language takes time, effort and patience. Even once learning such a lot of infamous languages like C, Python, Javascript (plus Typescript), Go, PHP, etc. I have to confess that even currently the thought of learning a new language gives us chills.

4. *Dart is a good first language:* Simply hit their Dartpad URL through the browser. The Dart team encompasses a pretty sensible introduction and tutorial, and also the documentation is rock-solid. Their tutorial is straightforward enough to follow. Google created it certain that anyone will start with Dart as simply as attainable.

5. *Dart has nice tooling support:* Dart has made tooling support. Virtually each major Text Editor and IDE has nice support for the Dart language. You can use heavy tool like Web storm, IntelliJ IDEA, and Android Studio, or use easy editors like VS Code, Sublime text, VIM, Emacs, Atom, etc. Thus you're free to select no matter whatever Editor you're comfy with.

6. *Dart ensures productivity:* Dart has a huge collection of libraries and frameworks packet with

it. You ought not to recreate the wheel each time you would like to implement a new feature. This protects plenty of your time. Plus, all you would like to try to this, call in some code from the documentation and you're sensible to travel. This causes you productivity. Language-wise, even supposing Dart is object-oriented, you'll make use of it as a completely functional one. Also, there's no weird catch thereto, as there's in Javascript. Therefore, you'll do each object-oriented or functional programming with a similar language.

7. *Dart is used by Flutter:* Developers got interested in Dart only when the Flutter project started getting more popular. By learning Dart, you can do meaningful work with it. Now companies are using Flutter. By default, devs are using Dart, in production. Additionally, there's a huge community of developers who are eager to share their knowledge, their experiences, and their learning journey with Dart.

8. *Dart is backed by a tech giant:* When you invest such a lot of time learning some new tech, you wish to be further cautious regarding the past, present, and way forward for that tech. when several months of learning one thing new, the final thing you wish is seeing that technical school go stale, deprecated, or fall out of industry standards. Dart is one of the quickest growing languages within Google and is employed by its internal product like Ad words, Flutter, Fuchsia, Angular Dart, etc. Outside Google, corporations like Alibaba, Adobe, MailChimp, JetBrains, area units victimization this language in production. Often, it's seen that corporations return up with new languages however keep them proprietary. Since Dart was open supply right from the start, developers ne'er even had to fret regarding licensing problems.

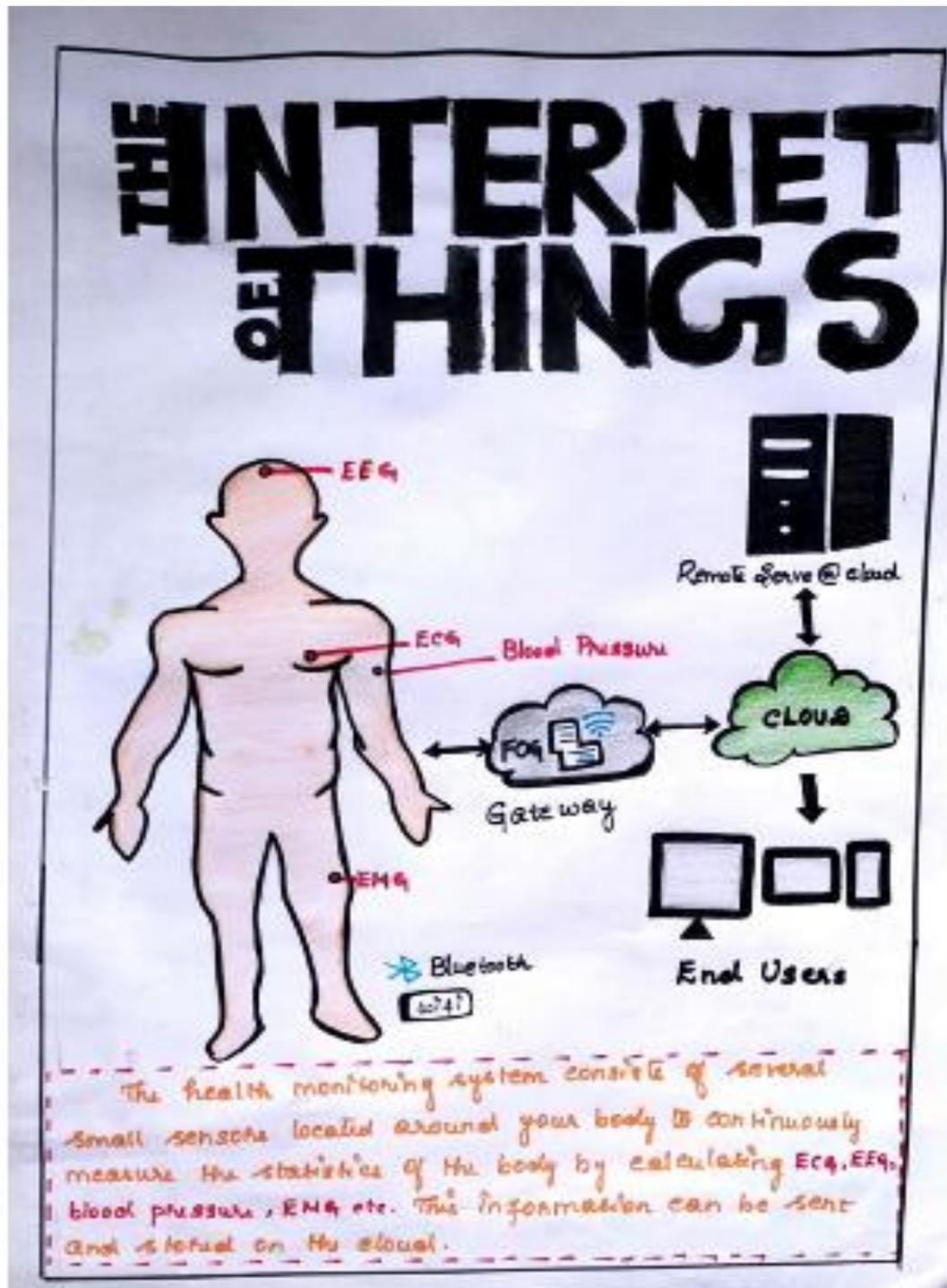
9. *The Efficiency of Dart:* Dart is compiled for each AOT and JIT. Flutter took advantage of this truth, as victimization JIT compilation hurries up development (through Hot Reloading and stuff like that) and AOT compilation offers higher optimization throughout release time. Flutter makes devs additional productive in that its Hot Reloading is enabled by default. If you're a Java or a Swift dev and you have got tested React Native before, then you recognize however useful the recent Reload feature is. Hot Reloading saves

heaps of your time, and so boosts productivity. The team behind Dart had approached Dart with a cross-platform attitude. Dart solves heaps of issues additional with more efficiency than JavaScript as a result of it was meant to resolve those issues.

Conclusion: Dart is quickly exchanging the necessity for different distended languages. It's quick and straightforward to select up. It's a good tool, solves heaps of issues and ensures productivity. So, let's use it.

S. Swaathi, II MCA

TECHNICAL DRAWING



S. Swaathi, II MCA

RESEARCH ACTIVITIES FROM 2019-2021

The department's contribution towards research was elevated to the next heights. Our staffs publish their research articles in reputed journals as a part of research contribution and to enrich their knowledge they also participate in FDP, workshops and webinars. The details are delineated below:

<i>S.NO</i>	<i>PUBLICATIONS</i>	<i>FDP</i>	<i>WORKSHOP</i>	<i>SEMINARS/ WEBINARS</i>
1	25	5	16	18



Our Prestigious Ph.D. Scholars

The research scholars those who are awarded Ph.D. degree from MCA department by the University of Madras from 2019 -2021 are listed below:

<i>S.NO</i>	<i>RESEARCH SUPERVISOR</i>	<i>RESEARCH SCHOLAR</i>	<i>TITLE</i>	<i>DATE OF VIWA-VOCE</i>
1.	Dr. T. Velmurugan	S. Navitha	Simulation Based Performance Analysis of Routing Protocols in Mobile Ad-Hoc networks.	25-02-2021
		U. Latha	A Hybrid Model for Heart Disease Classification Using Named Entity Recognition and Whale Optimization Algorithms	03-03-2021
		K. Saravanan Nathan	Performance Based Analysis of Clustering Algorithms Using Diabetic Data for the Prediction of Disease.	05-03-2021
2.	Dr. S. Santhosh Baboo	Iyappa Raj	A Classification And Analysis Of Pulmonary Nodules In Ct Images Using Random Forest	29-11-2019
		R. Seetha	A Breast Tumor Mass Detection using Enhanced Intensity based Cramer Rao - Straighten Boundary Condition and Weighted Particle Swarm Optimization.	15-04-2021

At present, the department has 10 research scholars pursuing their research.



BOOK PUBLICATION

To share the knowledge, the department staff has authored books for the education society. The details of the books are listed below:

<i>S.No</i>	<i>AUTHOR</i>	<i>TITLE</i>	<i>YEAR</i>
1.	Dr. R. Anandhi	Object Oriented Programming Using C++ And Data Structures	2019
2.	Dr. R. Anandhi	Object Oriented Programming Using C++	2021
3.	Dr. R. Anandhi	Web Technology	2021



CO-CURRICULAR ACTIVITIES

The students of the department have brought laurels by participating in co-curricular activities. The details are delineated below:

<i>S.NO</i>	<i>YEAR</i>	<i>STUDENT NAME</i>	<i>EVENT</i>	<i>PRIZE</i>	<i>AWARDER</i>
3.	2018-19	S. Hema	Throw Ball	Runner	DGVC
4.	2019-20	K. Kokila Priya	Kabaddi	Third	Chairman's Trophy, DGVC



PLACEMENT

<i>S.NO</i>	<i>NAME</i>	<i>YEAR</i>	<i>DESIGNATION</i>	<i>COMPANY</i>
1.	N. Ellavarasan	2020	Software Developer	Clayfin Technologies
2.	V. Srinidhi	2020	Software Developer	Clayfin Technologies
3.	G. Sakthi Abirami	2020	Software Developer	Clayfin Technologies
4.	K. Selva	2021	Software Developer (Internship)	Clayfin Technologies
5.	S. Sai Kiran	2021	Software Developer (Internship)	Clayfin Technologies
6.	G. Krishna Kumar	2021	Software Developer (Internship)	Clayfin Technologies
7.	B. Vignesh	2021	Software Developer (Internship)	Clayfin Technologies
8.	G. Balaji	2021	Software Developer (Internship)	Accentia
9.	E. MadhanKumar	2021	Full Stack Developer (Intership)	MAANTT
10.	S. Agasteen	2021	Full Stack Developer (Intership)	MAANTT
11.	S. Adhithyan	2021	Full Stack Developer (Intership)	MAANTT
12.	R. Sai Shree	2021	Software Developer (Internship)	Kumaran Systems

