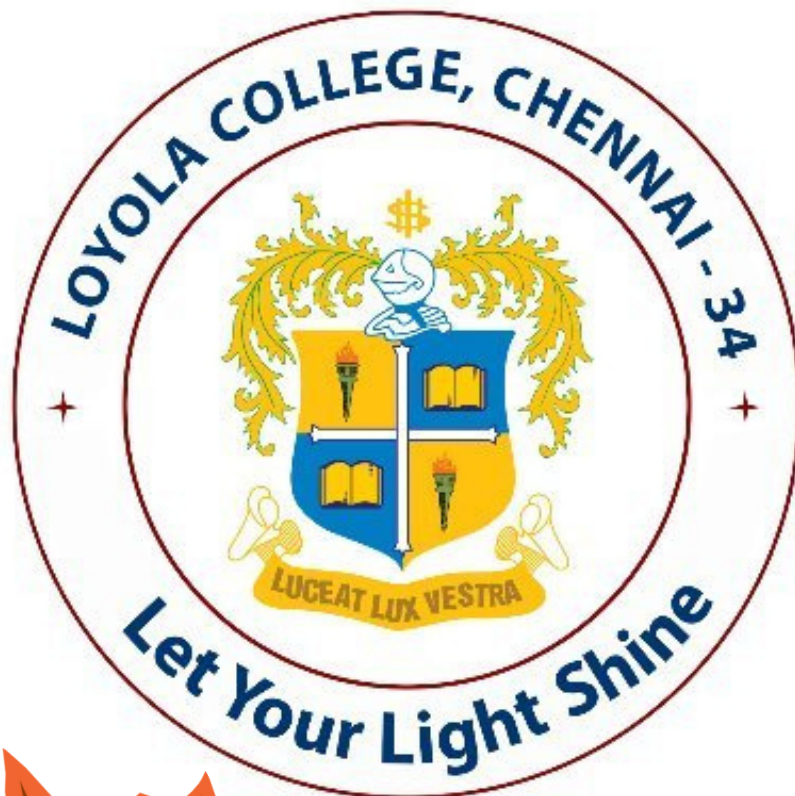


LOYOLA COLLEGE

DEPARTMENT OF DATA SCIENCE

ASSOCIATION ACTIVITIES
(2021 - 2022)





LIST OF ACTIVITIES

01

DEVOPS

02

**DATA SCIENCE
PROJECTS USING
GITHUB**

03

PYTHON USE CASE

04

MATLAB

05

**NLP USING USING
MACHINE LEARNING**

06

**THE ART OF
CUSTOMER
SEGMENTATION**

07

**ANALYTICS IN
GENOMIC STUDIES**

08

**DATA SCIENCE USE
CASE**

09

PYTHON SNIPPETS

10

**CYBER SECURITY -
PROCESSES, TOOLS
& TECHNIQUES**



01 WORKSHOP ON DEVOPS

The Department Of Data Science, Loyola College, Chennai had arranged an very useful series of guest lecture by Industrial Expert **Mr.Balasubramani** specially for the students of II M.Sc. Data science.

The first day lecture was held on **27.08.2021** from 8.30 am to 11.30 am on the topic Cloud-BDA,Containers,DevOps (online mode)

The second day lecture was held on 03.09.2021 from 8.30 am to 11.15 am (online mode)

The third day lecture was held on 25.09.2021 from 9.00 am to 12.00 am on the topic **Docker** (online mode)

The fourth day lecture was held on 13.10.2021 from 10.00 am to 12.00 am on the topic Docker (online mode)

The fifth day lecture was held on 26.10.2021 from 9.00 am to 11.00 am on the topic **Hadoop Ecosystem-II** (online mode)

And finally,The last day lecture was held on 11.12.2021 in offline mode from 1.30 pm to 4.30 pm'

This whole series of lecture is of great use for the students. Students have gained a lot of knowledge in cloud and technologies.

Overall, it was a great guest lecture.

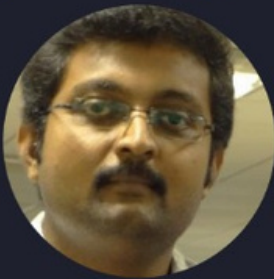


DEPARTMENT OF DATA SCIENCE
LOYOLA COLLEGE (AUTONOMOUS)
NUNGAMBAKKAM, CHENNAI 600 034



WORKSHOP ON **CLOUD DEVOPS**

RESOURCE PERSON



Mr. S. Balasubramani
Senior Solution Architect
DXC Technologies, Chennai

🕒 11-12-2021

📅 1.30 pm - 4.30 pm

📍 Computer Lab(DS)

Head of the Department

Dr. C. Muthu

02 WORKSHOP ON DATA SCIENCE PROJECTS USING GITHUB

On September 4, 2021, the Department of Data Science of Loyola College had hosted a Guest lecture on **Data science projects using github.**

Mr. Deon Jude Schellito, a proud outstanding alumnus who is currently working in the AIOps area at GAVS tech.pvt.ltd, is the Resource Person of the momentous day.

This session was held both online and offline for students.

Mr. Deon effectively utilised the two-hour session to educate the pupils on how the various industries do operate using Data Science.

Understanding the current industry trend is really beneficial to the pupils.

Mr. Deon spent the most of his time presenting Github's concepts, as it is widely used in industry, and he ensured that the students understood **DevOps, Apache Spark, cloud, mangoDB, and Python** technical code implementation.

He also shared his own practising experience, which aided students in gaining a better understanding of job preparation. The session was extremely beneficial to the students' future careers.

Overall, the Guest lecture had accomplished its goal of reshaping the students to be more prepared for their future careers.



DEPARTMENT OF DATA SCIENCE
LOYOLA COLLEGE, CHENNAI 600 034

organizes

Guest Lecture
on
Data Science Projects using Github

Resource Person
Mr. Deon Jude Schellito
Our illustrious alumnus

 Date: 04.09.2021

 1.30 p.m - 3.30 p.m

 Venue: Room no - CAT05

Faculty Incharge
Dr. V. Sumathy

Head of the Department
Dr. C. Muthu



03 WORKSHOP ON PYTHON USE CASE

Date: 23/10/2021

Time: 8.30 am to 11.30 am

Host: Prakash M

The lecture started with an introduction to the concept of "**Decision tree model**". In his talk, he emphasized the importance of the model starting with the basics and developed to the practical usage done and its implementation in different use cases using python programming language. We gained more knowledge as he started explaining us the importance of the model and its advantages for the development of data science projects in real world scenario. The topics were explained to us through a ppt presentation and he also solved each and every code in google collab to make us understand how the model works. We were introduced to two use cases of the model and were taught how it is being implemented in those particular domains. All of his points made us gain more knowledge.

04 WORKSHOP ON MATLAB

On **September 17**, 2021, the Department of Data Science, Loyola College hosted a hands-on workshop on MATLAB FOR DATA ANALYTICS.

Ms.Nivetha, Assistant Professor, Department of Statistics, Loyola College, Chennai is the Resource Person of the momentous day.

This session was held both online and offline for students.

Ms.Nivetha had effectively utilized the one hour session to educate the pupils on basic **matlab analytics techniques**.

Understanding and learning a new tool Matlab is really beneficial to the pupils.

Ms.Nivetha had spent most of her time in educating the students about analytics using Matlab.

The session was very useful for the students and all the students were benefited by learning a new tool Matlab, which will be a add on benefit for their career. Overall, the session had accomplished its goal of educating the students to learn Matlab.



05 WORKSHOP ON NLP UNDER MACHINE LEARNING TECHNIQUES

On **September 22**, 2021, the Department of Data Science of Loyola College had conducted a Workshop on **NATURAL LANGUAGE PROCESSING UNDER MACHINE LEARNING TECHNIQUES**

Dr.V.Ajantha Devi, Research Head at AP3 Solutions, Chennai, is the Resource Person of the auspicious day.

This session was held both online and offline for students.

The session held from 1:30pm to 4:30 pm. Dr.V.Ajantha Devi has explained the basics of NLP and how it is used in real time projects



Understanding the current trend, NLP is very insightful as it is a booming field.

Dr.V.Ajantha Devi spent the most of her time presenting NLP concepts in python using machine learning techniques , as it is widely used in industry, and she ensured that the students understood the basics in NLP such as **lemmetization, stemming, word tokenization, tweet analysis** and much more.

She also donated her own co-authored book to our department library, which is mainly focused on all the analytic ways over Covid-19 data.

The session aided students in gaining a better understanding of NLP and will be extremely beneficial to the students' future projects.

Overall, the workshop had accomplished its goal of providing an insightful vision on NLP.



DEPARTMENT OF DATA SCIENCE
LOYOLA COLLEGE, CHENNAI 600 034

Organizes
Workshop On

NATURAL LANGUAGE PROCESSING UNDER
MACHINE LEARNING TECHNIQUES

Dr.V.AJANTHA DEVI
Research Head
AP3 Solutions, Chennai.

Date : 22-09-2021

1:30 PM - 4:30 PM

Venue : Data Science Lab

Convenor
Dr.A.Manimuthu

Head of the Department
Dr.C.Muthu



06 WORKSHOP ON THE ART OF CUSTOMER SEGMENTATION

On **September 25, 2021**, the Department of Data Science , Loyola College hosted a Guest lecture on **THE ART OF CUSTOMER SEGMENTATION**

Ms.Gethsiya Raagel ,a proud outstanding alumna who is currently working as a Data Scientist at First Insight, is the Resource Person of the wonderful day.

This session was held both online and offline for students.

The two-hour session conducted by Ms.Gethsiya was very useful to educate the pupils on how the industries do operate using Customer Segmentation Understanding the current industry trend is really beneficial to the pupils.

Ms.Gethsiya spent most of her time presenting Turf Analysis, as it is widely used in industry, and She ensured that the students understood various data visualization tools like **PowerBI, Looker** etc.

Ms.Gethsiya also shared a lot of guidance to students regarding the job offers on LinkedIn.

She also shared her knowledge on creating PIVOT TABLE, which aided students in gaining a better understanding of data analysis. The session was extremely beneficial to the students' future careers.

Overall, the Guest lecture had accomplished its goal of reshaping the students to be more prepared for their future careers.




DEPARTMENT OF DATA SCIENCE
LOYOLA COLLEGE, CHENNAI 600 034
Organises
Guest Lecture
On
The Art of Customer Segmentation

Resource Person
Ms.Gethsiya Raagel K
Data Scientist
First Insight
(Our illustrious alumna)

📅 Date : 25.9.2021 | ⌚ Time : 1.30pm to 3.30pm
📍 Venue : Room No - CAT05

Organizer
Dr.V.Sumathy

Head of the Department
Dr.C.Muthu



07 WORKSHOP ON ANALYTICS IN GENOMIC STUDIES

On **October 12**, 2021, the Department of Data Science of Loyola College had conducted a Guest Lecture on **ANALYTICS IN GENOMICS**

Dr. ANBUPALAM THALAMUTHU, Senior Research Fellow at the Centre for Healthy Brain Ageing (CHeBA), University of New South Wales (UNSW), Sydney, is the Resource Person of the auspicious day.

This session was held online for both I and II M.Sc. Data Science students.

Dr. ANBUPALAM THALAMUTHU spent the most of his time presenting the data used for genomic studies, which is mainly on three cohorts:

- the Older Australian Twins Study (OATS),
- the Sydney Memory and Ageing Study (MAS) and
- the Sydney Centenarian Study (SCS).

He ensured that the students understood the basics in Human Genome, Whole genome sequencing, DNA methylation, Types of Omics, GWAS(Genome-wide Association Study), RNA sequencing.

He has graciously agreed to offer guidance to the deserving and interested students with the projects in this domain.

The session aided students in gaining a better understanding of GENOMICS domain and will be extremely beneficial to the students' future projects.

Overall, the guest lecture had accomplished its goal of providing a insightful vision on analytics in genomics.



DEPARTMENT OF DATA SCIENCE
LOYOLA COLLEGE, CHENNAI 600 034

Organises

Webinar On

ANALYTICS IN GENOMIC STUDIES

Resource Person



Dr. ANBUPALAM THALAMUTHU

Senior Research Fellow

CHeBA

at UNSW Australia

 Date : 12.10.2021 |  Time : 2:30pm to 4:00pm

 <https://meet.google.com/hfa-ckua-qbs>

Organizer
Dr.V.Sumathy

Head of the Department
Dr.C.Muthu

08 WORKSHOP ON DATA SCIENCE USE CASE

On **23 October 2021**, a workshop on **DATA SCIENCE USE CASES ON ANALYTICS IN BANKING, RETAIL AND AUTOMOBILE SECTOR** by the Department of Data Science of Loyola College for the students of department of data science.

Mr.Sudeesh Sankaravel, Data scientist in Verizon Data Services was the resource person of the session.

It was held in offline mode in YD Hall from 1.30pm to 4.30pm.

Mr Sudeesh spent first half of the session introducing Artificial Specific Intelligence, Artificial Generic Intelligence, Business Intelligence, digital twin, industry 4.0 environment, smart city project and data deluge. The second half of the session covered mostly use cases in banking, retail, telecom, insurance, governance, automobile, digital customer experience and project Katherina.

He shared his personal experience working with projects in different domain including customer satisfaction, survival analysis, churn prediction, association analysis etc.

The session was insightful, interesting and thought provoking. The students' feedback mostly had interests of listening to him again.



LOYOLA COLLEGE, CHENNAI-34
DEPARTMENT OF DATA SCIENCE

Guest Lecture on



Resource Person

Sudeesh Sankaravel,
Data Scientist,
Verizon Data Services



Date: 23-Oct-2021



Time: 1.30pm – 4.00pm



**Venue:
JD Hall**

**Organizer
Dr. V. Sumathy**

**Head of the Department
Dr. C. Muthu**

09 WORKSHOP ON PYTHON SNIPPETS TRAINING

On **October 30, 2021** and **November 1, 2021**, the Department of Data Science, Loyola College hosted a hands-on workshop on **PYTHON SNIPPETS TRAINING**.

MR. GURU RAJAN, is the Resource Person of the momentous day.

This session was held both online for all the students students.

Mr. GuruRajan had effectively utilized the one hour session to educate the pupils on **basic Python coding techniques**.

Understanding and learning python language is really beneficial to the pupils.

Mr. GuruRajan had spent most of his time in educating the students about Python Competitive Coding and Oops concepts..

The session was very useful for the students and all the students were benefited by learning Python, which will be a add on benefit for their career. Overall, the session had accomplished its goal of educating the students to learn Python coding.



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deeplearningcomplete all files Latest commit 99a5e6c on Nov 1, 2021 History

1 contributor

702 lines (702 sloc) | 12.7 KB

5 minute introduction to python

```
In [1]: x = 10
        print(x)
```

```
In [2]: y = 45.57
        print(y)
```

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enuguru new file	c8ca310 on Feb 20	55 commits
.ipynb_checkpoints	all files	5 months ago
cinterface	new files	10 months ago
database	all files	10 months ago
day2	all files	5 months ago
generators	new files	6 months ago
miscellaneous	all files	5 months ago
modules_and_packages	new files	10 months ago
packing_and_unpacking	new files	6 months ago
python-programming-workshop	all files	5 months ago
python_programming_level1	all files	5 months ago
python_programming_level2	new file	last month
teststone	all files	9 months ago

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10 WORKSHOP ON CYBER SECURITY - PROCESSES, TOOLS & TECHNIQUES

On **December 11,2021** and **December 12,2021**, the Department of Data Science, Loyola College hosted a hands-on workshop on Cyber Security - Processes, Tools & Techniques.

Mr.Ashiq Ramachadran, is the Resource Person of the momentous day.

This session was held both online for all the students students.

Mr.Ashiq Ramachadarn had effectively utilized the one hour session to educate the pupils on **basic Cyber security techniques**.

Understanding and learning the techniques is really beneficial to the pupils.

Mr.Ashiq Ramachadarn had spent most of his time in educating the students about tools used for Cyber security

The session was very useful for the students and all the students were benefited by learning Cyber Security, which will be a add on benefit for their career. Overall, the session had accomplished its goal of educating the students to learn tools and techniques for cyber security.



The screenshot shows the SHODAN dashboard with a dark theme. At the top, there is a navigation bar with 'SHODAN' and links for 'Explore', 'Downloads', and 'Pricing'. A search bar is on the right. The main content area is divided into several sections:

- Getting Started:** Includes links for 'What is Shodan?', 'Search Query Fundamentals', and 'Working with Shodan Data Files'. A 'LEARN MORE' button is present.
- ASCI Videos:** Features three video thumbnails with titles like 'Setting up Real-Time Network Monitoring' and 'Measuring Public SMB Exposure'. A 'VISIT THE CHANNEL' button is at the bottom.
- Developer Access:** Contains links for 'How to Download Data with the API', 'Looking up IP Information', and 'Working with Shodan Data Files'. A 'DEVELOPER PORTAL' button is at the bottom.
- QUICK LINKS:** A vertical list of buttons for 'SETUP NETWORK MONITORING', 'BROWSE IMAGES', and 'MAP VIEW'.
- Filters Cheat Sheet:** A table listing common search filters used by Shodan.

Filter Name	Description	Example
city	Name of the city	Devices in San Diego
country	3-letter Country code	Devices within the United States

At the bottom right, there is a grid of user avatars, including 'Aashiq Ramachan...', '21-PDS-011 GOW...', 'HOD Data Science', '21-PDS-021 JOHN...', '20-PDS-020 U. D...', '21-PDS-022 COR...', '20-PDS-005 SUR...', '47 others', and 'You'. The bottom status bar shows the time '11:00 AM' and the user ID 'nky-pfwv-jrr'.

The screenshot shows a Microsoft Teams meeting grid with a dark theme. The grid contains several participant tiles:

- 20-PDS-014 ELCIN YUTES B (with a cartoon avatar)
- 20-PDS-019 GLARY AMALA MONIKA J (with a pink pig avatar)
- Aashiq Ramachandran (with a blue 'A' avatar, highlighted with a blue border)
- 21-PDS-012 RAMYA S (with a purple 'R' avatar)
- 21-PDS-022 CORDIS ROSHAN L (with a brown 'C' avatar)
- HOD Data Science (with a green 'H' avatar)
- 40 others (with a blue and brown 'JJ' avatar)
- N (with a green 'N' avatar)

On the right side, there is a 'People' list showing a scrollable list of participants with their names and initials, such as '20-PDS-007 MOSES A', '20-PDS-010 JOHN PETER...', '20-PDS-012 JOVITA V', '20-PDS-013 SEBIN JAMES', '20-PDS-014 ELCIN YUTES...', '20-PDS-015 GHLADIN SH...', '20-PDS-017 JEFFRY JAM...', '20-PDS-018 JOSPIN DHIV...', '20-PDS-019 GLARY AMA...', and '20-PDS-020 U. DURGA'.



PRIZE WINNERS

ALL INDIA NOVO NORDISK PROJECT COMPETITION

1 St Prize

**SHYAM PRAKASH J
NANNIE GARISHA R
NARASIMHA RAO KP
SEBIN JAMES**

**State Level intercollegiate competition held at
SACRED HEARTS COLLEGE**

1 St Prize

**Paper presentation (Nannie Garisha & Herman Terry)
Software Development (Elcin Yutes)**