



Department of Electronics & Communication Engineering

01/04/2025

To,  
The Principal,  
ATME College of Engineering  
Mysuru-28

Dear Sir,

**Sub: Request to conduct Technical Talk on “End-to-End Automation for Modern Applications: CI/CD Workflows, Python in Daily Life, and Cloud-Based Data Extraction”**

The Department of Electronics & Communication Engineering in association with IETE Student forum is planning to organize a Technical Talk titled “**End-to-End Automation for Modern Applications: CI/CD Workflows, Python in Daily Life, and Cloud-Based Data Extraction**” on 4<sup>th</sup> April 2025, starting at 10:00 AM. The estimated budget for the event is Rs. 3,000.00. In this regard, we request you to kindly grant permission to conduct the event and also requesting you to grant the requested budget and oblige.

**Objective of the Technical Talk:**

1. Learn Python scripting for daily task automation.
2. Explore web scraping for project-related data.
3. Work with Google Drive files using Python APIs.
4. Apply automation skills to real-world and VLSI industry use cases.

**About the Technical Talk:**

This session focuses on empowering students with essential automation skills for modern applications. It introduces web scraping techniques and working with Google Drive APIs—equipping students with real-world tools and knowledge highly sought after in industries like VLSI and beyond.

**Outcome of the Technical Talk:**

Students will understand the role of websites and automated deployment in projects, learn web scraping to gather project-relevant data (especially valuable in the VLSI industry), explore automated data extraction from scanned images using cloud and Python, and learn to process files in Google Drive using APIs.

**Target Audience:**

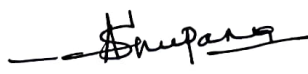
This event is specifically aimed at 4th semester students of Electronics & Communication Engineering.

**Resource Person:**

Vishwas K Singh ✓  
Subject Matter Expert – FSD  
CloudThat Technologies – Bengaluru, India

Please do needful and oblige.

Thanking you,

ISF Coordinator- Ms. Anupama Shetter   
Event Coordinators- Mrs. Nandini G S & Mr. Rajeev Gowda R



# A T M E

College of Engineering



## Department of Electronics & Communication Engineering

### Estimated Budget Request

| Sl.No. | Particulars              | Amount in Rs./- |
|--------|--------------------------|-----------------|
| 1      | Honorarium for the Guest | 3,000.00        |
|        | <b>Total</b>             | <b>3,000.00</b> |

### The Budget detailed for the Academic Year 2025-26

| Department Budget      | ECE                                                                                                                                                         | Remarks     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Budget Year            | 2025-26                                                                                                                                                     | ✓           |
| Budget Code            | 305.20.00                                                                                                                                                   | ✓           |
| Budget Header          | V. Students welfare measures                                                                                                                                | ✓           |
|                        | Capacity building and Skills enhancement initiatives for students such as soft skills/ language and communications skills/ life skills/ICT/computing skills | ✓ <i>AL</i> |
| Budget Approved Amount | 40,000/-                                                                                                                                                    | ✓           |
| Spent so far           | 0                                                                                                                                                           | ✓           |
| Balance Amount         | 40,000/-                                                                                                                                                    | ✓           |
| Amount Requested       | Rs. 3,000/-                                                                                                                                                 | ✓           |

*NKP*  
HOD

*for AL*  
Accounts Officer  
01/04/25  
(S.A.A)

*Principal*  
11/4/25  
Principal

## Department of Electronics & Communication Engineering

**State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs**

Provide the details of the additional course/ learning material/ content/ laboratory/ experiments/ projects etc., arising from the gaps identified in

| Sl. No. | Action taken   | Date-Month-Year | Relevance to POs, PSOs         |
|---------|----------------|-----------------|--------------------------------|
| 1       | Technical Talk | 04-04-2025      | PO1,PO2,PO5,PO6,PO11,PO12,PSO1 |

Submitted to

The principal,

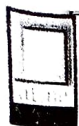
kindly do the needful.

*MKP*  
11/4/2025

*MKP*  
HOD

forwarded to the Hon'ble Chairman for  
 kind approval to sanction Rs 3000/-  
 towards technical talks on "End to End automation  
 for Modern applications".

*Kul*  
11/4/2025



ATME  
College of Engineering



**Department of Electronics & Communication Engineering**

01/04/2025

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Mysuru-28

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**Target Audience:**

This event is specifically aimed at 4th semester students of Electronics & Communication Engineering.

**Resource Person:**

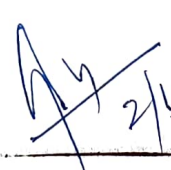
Vishwas K Singh ✓  
Subject Matter Expert – FSD  
CloudThat Technologies Bengaluru, India

Please do needful and oblige.

Thanking you,

ISF Coordinator- Ms. Anupama Shetter   
Event Coordinators- Mrs. Nandini G S & Mr. Rajeev Gowda R

Approved. However  
to suitability of each workshop  
to students shall be evaluated  
w.r.t prerequisites, academic level  
and branch.

 2/4



A T M E  
College of Engineering



**Department of Electronics & Communication Engineering**

College of Engineering

Department of  
State the delivery of  
Provide the

**Estimated Budget Request**

| Sl.No. | Particulars              | Amount in Rs./- |
|--------|--------------------------|-----------------|
| 1      | Honorarium for the Guest | 3,000.00        |
|        | <b>Total</b>             | <b>3,000.00</b> |

**The Budget detailed for the Academic Year 2025-26**

| Department Budget      | ECE                                                                                                                                                         | Remarks     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Budget Year            | 2025-26                                                                                                                                                     |             |
| Budget Code            | 305.20.00                                                                                                                                                   | ✓           |
| Budget Header          | V. Students welfare measures                                                                                                                                | ✓           |
|                        | Capacity building and Skills enhancement initiatives for students such as soft skills/ language and communications skills/ life skills/ICT/computing skills | ✓           |
| Budget Approved Amount | 40,000/-                                                                                                                                                    | ✓ <i>Al</i> |
| Spent so far           | 0                                                                                                                                                           | ✓           |
| Balance Amount         | 40,000/-                                                                                                                                                    | ✓           |
| Amount Requested       | Rs. 3,000/-                                                                                                                                                 | ✓           |

*[Signature]*  
HOD

*[Signature]*  
Accounts Officer  
01/04/25  
(S.A.A)

*[Signature]*  
Principal  
11/4/25



A T M E

College of Engineering



Department of Electronics & Communication Engineering

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| 1       | Technical Talk | 04-04-2025      | PO1,PO2,PO5,PO6,PO11,PO12,PSO1 |

Submitted to

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MKP  
11/4/2025



**ATME<sup>®</sup>**  
College of Engineering



Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and Recognized by Government of Karnataka,  
Programs accredited by NBA, New Delhi - **UG: CV, ECE, EEE and ME (Validity up to June 2025)**, **UG: CSE (Validity up to June 2026)**

Ref. No.: ATME/ECE/AY 2024-25/011

Date: 01-04-2025

To,

Mr. Vishwas K Singh  
Subject Matter Expert – FSD  
CloudThat Technologies – Bengaluru, India

Dear Mr. Vishwas K Singh,

I hope this letter finds you well. On behalf of the Department of Electronics and Communication at ATME College of Engineering, Mysuru, in association with ISF, I am delighted to extend an invitation to you to be the distinguished resource person for our upcoming technical talk on "End-to-End Automation for Modern Applications: CI/CD Workflows, Python in Daily Life, and Cloud-Based Data Extraction".

**Event Details:**

Date: on 4<sup>th</sup> April 2025,  
Time: 10:00 AM.  
Venue: Department of ECE, ATMECE (Seminar Hall)

We believe that our students will Learn Python scripting for daily task automation. They will also understand how to apply automation skills to real-world and VLSI industry use cases and how these fields can enhance their academic and professional journeys. We highly value your contribution and look forward to the prospect of your involvement in making this technical talk a success.

Thank you for considering our invitation. We are eager to have you with us and share your expertise with our students.

Kind regards,

Dr. Prathiba M K  
Assoc. Professor & Head  
ATME College of Engineering

**Vision**

- To develop highly skilled and globally competent professionals in the field of Electronics and Communication Engineering to meet industrial and social requirements with ethical responsibility.

**Mission**

- To provide State-of-art technical education in Electronics and Communication at undergraduate and post-graduate levels, to meet the needs of the profession and society and achieve excellence in teaching-learning and research.
- To develop talented and committed human resource, by providing an opportunity for innovation, creativity and entrepreneurial leadership with high standards of professional ethics, transparency and accountability.
- To function collaboratively with technical Institutes/Universities/Industries, offer opportunities for interaction among faculty-students and promote networking with alumni, industries and other stake-holders.

0821-2954081 | 0821 -2954011  
Info@atme.edu.in | www.atme.edu.in

13th Kilometer, Mysore – Kanakapura –  
Bangalore Road, Mysore – 570 028

Re: Technical talk invitation

From: Vishwas K Singh <vishwas@cloudhat.com>  
Sent: Wednesday, April 2, 2025 4:44 PM  
To: Dr. PRATHIBA M K <Dr.PRATHIBAMK\_EC@atme.edu.in>  
Cc: Nandini GS <nandinis\_ec@atme.edu.in>; Rajeev Gowda R <rajeevgowda.ec@atme.edu.in>  
Subject: Re: Technical talk invitation

Dear madam,

Thank you for your kind email and for considering me to deliver a technical talk to the students of the ECE Department at ATMECE. I am honoured by your invitation.

The topic **"End-to-End Automation for Modern Applications: CI/CD Workflows, Python in Daily Life, and Cloud-Based Data Extraction"** is indeed something I am passionate about, and I believe it aligns well with the current industry trends and the students' academic needs.

I am very interested in contributing to the students' learning experience and sharing my insights with them.

To proceed further, could you please provide me with some additional information, such as:

- **Proposed date and time for the talk.**
- **Estimated duration of the presentation.**
- **Expected audience size and their level of familiarity with the subject.**
- **Any specific requirements or expectations for the talk.**

So that I can tailor the presentation accordingly.

Thank you again for this wonderful opportunity. I look forward to hearing from you soon.

Sincerely,

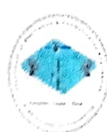
Vishwas K Singh

ADWAVE WINDOW  
C:\WINDOWS\SYSTEM32\cmd.exe



# ATME<sup>®</sup>

College of Engineering



Dept. of Electronics & Communication Engineering  
In association with IETE Student Forum



Organises a  
Technical talk on

## "End-to-End Automation for Modern Applications: CI/CD Workflows, Python in Daily Life & Cloud-Based Data Extraction"

**Date:** 04/04/2025

**Time:** 10:00 AM

**Venue:** 401 (Admin Block)

**Resource Person**



**Mr. VISHWAS K SINGH**

Subject Matter Expert-FSD  
CloudThat Technologies Pvt Ltd  
Bangalore

**Principal**

**Dr. Basavaraj L**

ATMECE, Mysuru

**ISF Coordinator**

**Ms. Anupama Shetter**

Asst. Prof, Dept. of ECE

**HOD & Convener**

**Dr. Prathibha M K**

ATMECE, Mysuru

**Coordinators**

**Mrs. Nandini G S**

Asst. Prof, Dept. of ECE

**Mr. Rajeev Gowda R**

Asst. Prof, Dept. of ECE

Phone: 0821-2954081 | 0821 -2954011

Email: [info@atme.edu.in](mailto:info@atme.edu.in) | Website: [www.atme.edu.in](http://www.atme.edu.in)

13th Kilometer, Mysore – Kanakapura – Bangalore Road, Mysore – 570 028

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## Responses Overview Active

Responses

132

Average Score

16.5

Average Time

05:40

3. What does CI/CD stand for in the context of software development? (1 point)

95% of respondents answered this question correctly.

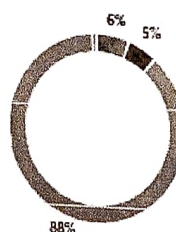
- Continuous Integration and Continuous Deployment 125 ✓
- Constant Improvement and Code Delivery 2
- Critical Infrastructure and Data Collection 2
- Centralized Information and Control Distribution 3



4. What is a common use case for Python in daily life, especially in automation? (1 point)

88% of respondents answered this question correctly.

- Designing graphical user interfaces exclusively 8
- Performing complex hardware simulations only 7
- Automating repetitive tasks and scripting 116 ✓
- Manually managing database entries 1



5. Which of the following is a common tool for orchestrating CI/CD pipelines? (1 point)

89% of respondents answered this question correctly.

- Microsoft Word 7
- Adobe Photoshop 4
- Jenkins 118 ✓
- Notepad 3



6. What is the role of version control systems (like Git) in CI/CD workflows? (1 point)

86% of respondents answered this question correctly.

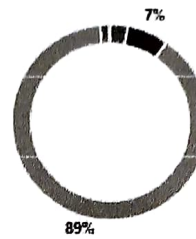
- To manually track changes without automation 6
- To manage and track changes to source code 114 ✓
- To limit collaboration among developers 8
- To avoid backups of code changes. 4



7. Which of the following is an example of a cloud platform commonly used for data extraction and processing? (1 point)

89% of respondents answered this question correctly.

- Local file system 4
- Physical DVD storage 9
- Amazon Web Services (AWS) 117 ✓
- Paper-based filing system 2



8. Which Python feature is essential for automating tasks by writing scripts? (1 point)

91% of respondents answered this question correctly.

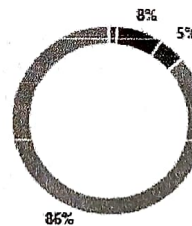
- Static typing 7
- Dynamic typing and scripting capability 120 ✓
- Complex compiled binary code 2
- Limited library support 3



9. What is the common format to store intermediate data? (1 point)

86% of respondents answered this question correctly.

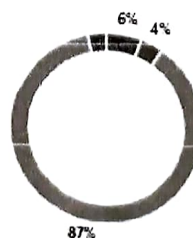
- Image 2
- Pdf 10
- Word Document 6
- csv 114 ✓



10. Library to fetch data from the internet in python is \_\_\_\_\_ (1 point)

87% of respondents answered this question correctly.

- numpy 8
- docker 5
- requests 115 ✓
- None 4



11. We can containerize our application with dependencies using \_\_\_\_\_ technology (1 point)

86% of respondents answered this question correctly.

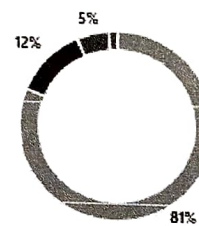
|              |       |
|--------------|-------|
| ● Kubernetes | 6     |
| ● Python     | 10    |
| ● Docker     | 113 ✓ |
| ● Playwright | 3     |



12. Common data format to save our files which can be later converted for presentation (1 point)

81% of respondents answered this question correctly.

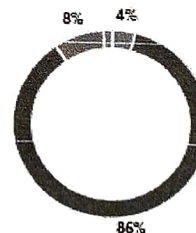
|            |       |
|------------|-------|
| ● Markdown | 107 ✓ |
| ● HTML     | 16    |
| ● XML      | 7     |
| ● Docx     | 2     |



13. Which tool is widely used for container orchestration in cloud environments? (1 point)

86% of respondents answered this question correctly.

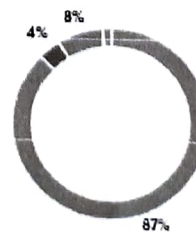
|              |       |
|--------------|-------|
| ● Git        | 5     |
| ● Kubernetes | 114 ✓ |
| ● Excel      | 11    |
| ● React      | 2     |



14. In a CI/CD pipeline, what does "Continuous Integration" primarily refer to? (1 point)

87% of respondents answered this question correctly.

|                                                            |       |
|------------------------------------------------------------|-------|
| ● Frequently merging code changes into a shared repository | 115 ✓ |
| ● Releasing new features manually after testing            | 5     |
| ● Deploying applications without testing                   | 10    |
| ● Ignoring changes until the final release                 | 2     |



## Pre-assessment

What command is commonly used to clone a repository in Git? (1 point)

89% of respondents answered this question correctly.

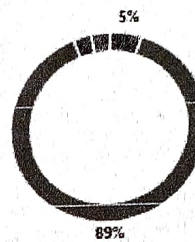
- ☐ git copy 8
- ☒ git clone 118 ✓
- ☐ git download 3
- ☐ git save 3



16. Which file is typically used to define dependencies in a Python project? (1 point)

89% of respondents answered this question correctly.

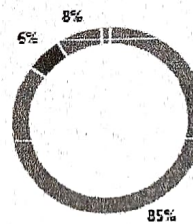
- ☐ package.json 7
- ☒ requirements.txt 117 ✓
- ☐ dependencies.xml 4
- ☐ config.yaml 4



17. Which format is commonly used for exchanging lightweight data between applications? (1 point)

85% of respondents answered this question correctly.

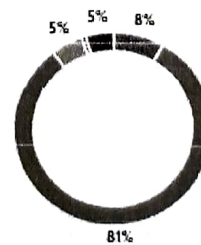
- ☒ JSON 112 ✓
- ☐ BMP 8
- ☐ MP3 10
- ☐ EXE 2



18. What is the primary benefit of using Docker in software development? (1 point)

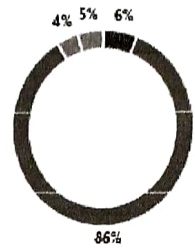
81% of respondents answered this question correctly.

- ☐ Running multiple operating systems simultaneously 11
- ☒ Packaging applications with dependencies for consistent deployment 107 ✓
- ☐ Replacing the need for CI/CD pipelines 7
- ☐ Increasing power consumption in servers 1
- ☐ Option 2 6



19. In Python, which module is commonly used to handle CSV files? (1 point)

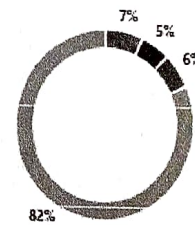
- pandas 8
- csv 113
- requests 5
- flask 6



20. Which of the following is NOT a version control system? (1 point)

82% of respondents answered this question correctly.

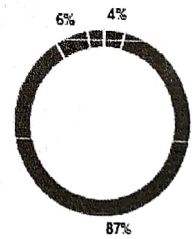
- Git 9
- Mercurial 7
- SVN 8
- Docker 108 ✓



21. What is the purpose of a .gitignore file in a Git repository? (1 point)

87% of respondents answered this question correctly.

- To hide files in a repository permanently 5
- To list files and directories that should not be tracked 115 ✓
- To prevent commits from being pushed 8
- To make commits faster 4



22. Which Python module is commonly used for handling HTTP requests? (1 point)

83% of respondents answered this question correctly.

- json 10
- requests 110 ✓
- os 9
- sys 3





**Department of Electronics & Communication Engineering**

Technical talk on

**End-to-End Automation for Modern Applications: CI/CD Workflows,  
Python in Daily Life, and Cloud-Based Data Extraction**

Date: 04/04/2025

| Sl. No. | USN        | Student Name        | Student Signature |
|---------|------------|---------------------|-------------------|
| 1       | 4AD23EC001 | A R NANDISH         |                   |
| 2       | 4AD23EC002 | AASIM AHMED         |                   |
| 3       | 4AD23EC003 | AISHWARYA K         | Aishwarya.K       |
| 4       | 4AD23EC005 | AMULYA D            | Amulya D.         |
| 5       | 4AD23EC006 | AMULYA M R          | Amulya.M.R        |
| 6       | 4AD23EC007 | AVINASH P N         | Avinash.p.N       |
| 7       | 4AD23EC008 | BHOOMIKA J K        | Bhoomika J.K      |
| 8       | 4AD23EC009 | BHOOMIKA K S        | Bhoomika K.S      |
| 9       | 4AD23EC010 | BHOOMIKA. Y         | Bhoomika.Y        |
| 10      | 4AD23EC011 | BHUVAN              | Bhuvan.           |
| 11      | 4AD23EC012 | BI BI AYESHA        |                   |
| 12      | 4AD23EC013 | CHANDAN ARADHYA T K | Chandana.A        |
| 13      | 4AD23EC014 | CHANDANA K          | Chandana.K        |
| 14      | 4AD23EC015 | CHATHURTHI B R      | Chathurthi B.R.   |
| 15      | 4AD23EC016 | CHIDANAND PATIL N S | Chidananda        |
| 16      | 4AD23EC017 | CHIRAG M            | Chirag.M          |
| 17      | 4AD23EC018 | DHANUSH MANOOR B H  | Dhanush           |
| 18      | 4AD23EC019 | DHANYASWINI S       | Dhanya            |
| 19      | 4AD23EC020 | DIVYA B K           | Divya             |
| 20      | 4AD23EC021 | DIVYA D SEERVI      | Divya D.          |
| 21      | 4AD23EC022 | DIVYASHREE M        | Divyashree M.     |
| 22      | 4AD23EC023 | DIVYASHREE N        | Divyashree N.     |
| 23      | 4AD23EC024 | DYUTHI N V          | Dyuthi.N.V        |
| 24      | 4AD23EC025 | FARIYA NOOR         |                   |
| 25      | 4AD23EC026 | G N HEMANT KUMAR    | Hemant            |
| 26      | 4AD23EC027 | GAGAN CHANDRA M S   | Gagan M.S         |
| 27      | 4AD23EC028 | GAGAN K B           | Gagan.K.B         |
| 28      | 4AD23EC029 | GANAVI N            | GANAVI.N          |
| 29      | 4AD23EC030 | GANESH A K          | Ganesh.A.K.       |
| 30      | 4AD23EC031 | GOWTHAMI B S        | Gowthami B.S      |
| 31      | 4AD23EC032 | HARSHA K N          |                   |
| 32      | 4AD23EC033 | HARSHINI NAYAK R    | Harshini          |
| 33      | 4AD23EC034 | HARSHINI S T        | Harshini          |
| 34      | 4AD23EC035 | HARSHITH G M        | Harshith          |
| 35      | 4AD23EC036 | JEEVAN RAJ N        | Jeevan Raj N      |
| 36      | 4AD23EC037 | JNANENDRA H         | Jnanendra.H       |
| 37      | 4AD23EC038 | K B MAITHRI         | Maithri           |
| 38      | 4AD23EC040 | KAVANA S R          | Kavana            |
| 39      | 4AD23EC041 | KEERTHANA A R       |                   |



## Department of Electronics & Communication Engineering

|    |            |                             |                |
|----|------------|-----------------------------|----------------|
| 40 | 4AD23EC042 | LIKITHA B H                 | Likitha B.H    |
| 41 | 4AD23EC043 | M R VARSHA                  |                |
| 42 | 4AD23EC044 | MANISH PATIL                | Manish         |
| 43 | 4AD23EC045 | MANISH V                    | Manish         |
| 44 | 4AD23EC046 | MANOHAR B                   | Manohar        |
| 45 | 4AD23EC047 | MANOJ K PRAKASH             | Manoj          |
| 46 | 4AD23EC048 | MANOJ R                     | Manoj R        |
| 47 | 4AD23EC049 | MANUSHREE V S               | Manushree V.S  |
| 48 | 4AD23EC050 | MANYA S                     | Manya S        |
| 49 | 4AD23EC051 | MEGHANA S                   | Meghana, S     |
| 50 | 4AD23EC052 | MIRZA AAMIR HASEEB          | Aamir          |
| 51 | 4AD23EC053 | MOHAMMED ISMAIL             |                |
| 52 | 4AD23EC054 | MOKSHITHA N G               | Mokshitha      |
| 53 | 4AD23EC055 | NAMITH T B                  | Namith T B     |
| 54 | 4AD23EC056 | NANDANA U N                 | Nandana        |
| 55 | 4AD23EC057 | NAVYA SHREE P D             |                |
| 56 | 4AD23EC058 | NAVYASHREE N                | Navyashree N   |
| 57 | 4AD23EC059 | NAYANA                      |                |
| 58 | 4AD23EC060 | NIKHITHA L                  |                |
| 59 | 4AD23EC061 | NISARGA B R                 | Nisarga        |
| 60 | 4AD23EC062 | NISHITH GOWDA K S           |                |
| 61 | 4AD23EC063 | P MANOJ KUMAR               | P. Manoj Kumar |
| 62 | 4AD23EC064 | POOJA C L                   |                |
| 63 | 4AD23EC065 | POORVITHA H L               |                |
| 64 | 4AD23EC066 | PRADEEP NEELAPPA HALIHAL    |                |
| 65 | 4AD23EC067 | PRAJWAL GOWDA M             |                |
| 66 | 4AD23EC068 | PRAJWAL R                   |                |
| 67 | 4AD23EC069 | PRAKRUTHI M S               | Prakruthi      |
| 68 | 4AD23EC070 | PRANAMYA U G                |                |
| 69 | 4AD23EC071 | PRAVEEN YAMANAPPA KODAGALLI |                |
| 70 | 4AD23EC072 | PREETHI K                   | Preethi K.     |
| 71 | 4AD23EC073 | RACHANA G                   |                |
| 72 | 4AD23EC074 | RAKSHITH A M                |                |
| 73 | 4AD23EC075 | RAKSHITHA M                 |                |
| 74 | 4AD23EC076 | RASHMITHA E                 |                |
| 75 | 4AD23EC077 | ROHAN JOSEPH                |                |
| 76 | 4AD23EC078 | SAGAR H N                   | Sagar H.N.     |
| 77 | 4AD23EC079 | SANDESH MIRASHI             |                |
| 78 | 4AD23EC081 | SHANTHAKUMAR                | Shanthakumar   |
| 79 | 4AD23EC082 | SHASHANK A N                | Shashank A.N.  |
| 80 | 4AD23EC083 | SHEETAL PATTANSHETTY        | Sheetal        |
| 81 | 4AD23EC084 | SHEKHAR C                   | Shekhar C      |



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|     |            |                     |                     |
|-----|------------|---------------------|---------------------|
| 82  | 4AD23EC085 | SHIVAKARTHIK T S    | Shivakarthik T S    |
| 83  | 4AD23EC086 | SHIVAKUMAR          |                     |
| 84  | 4AD23EC087 | SHIVAPRASAD H M     |                     |
| 85  | 4AD23EC088 | SHIVARAJU K P       |                     |
| 86  | 4AD23EC089 | SHOBITH B R         | Shobith B R         |
| 87  | 4AD23EC090 | SHREYA H B          | Shreya H B          |
| 88  | 4AD23EC091 | SINCHANA C S        | Sinchana C S        |
| 89  | 4AD23EC092 | SINCHANA M R        | Sinchana M R        |
| 90  | 4AD23EC093 | SINCHANA N          | Sinchana N          |
| 91  | 4AD23EC094 | SNEHA M             | Sneha M             |
| 92  | 4AD23EC095 | SNEHANAG N          | Snehanag N          |
| 93  | 4AD23EC096 | SONU                |                     |
| 94  | 4AD23EC097 | SOWNDARYA N         | Sowndarya N         |
| 95  | 4AD23EC098 | SRILAKSHMI P        | Srilakshmi P        |
| 96  | 4AD23EC099 | SUBHASH CHANDRA H P | Subhash Chandra H P |
| 97  | 4AD23EC100 | SUHAIB KHAN         |                     |
| 98  | 4AD23EC101 | SWATHI M            | Swathi M            |
| 99  | 4AD23EC102 | SYED ZIKRIYA        |                     |
| 100 | 4AD23EC103 | THANUSHREE A        | Thanushree A        |
| 101 | 4AD23EC104 | ULLAS P S           |                     |
| 102 | 4AD23EC105 | V V RIYA VIJAY      | V V Riya Vijay      |
| 103 | 4AD23EC106 | VARSHA GANESHA      | Varsha Ganesha      |
| 104 | 4AD23EC107 | VARSHA M P          | Varsha M P          |
| 105 | 4AD23EC109 | VISMITH P U         |                     |
| 106 | 4AD23EC110 | VYSHNAVI S          | Vyshnavi S          |
| 107 | 4AD23EC111 | YASHMITHA K M       | Yashmitha K M       |
| 108 | 4AD23EC112 | YASHWANTH A J       | Yashwanth A J       |
| 109 | 4AD23EC113 | YASHWANTH GOWDA S S | Yashwanth Gowda S S |
| 110 | 4AD23EC114 | YOGEESH P           | Yogeesh P           |
| 111 | 4AD22EC112 | SYED ABDUL HADI     | Syed Abdul Hadi     |
| 112 | 4AD24EC400 | AKASH M R           | Akash M R           |
| 113 | 4AD24EC401 | BHARATH R           | Bharath R           |
| 114 | 4AD24EC402 | CHANDAN T M         | Chandan T M         |
| 115 | 4AD24EC403 | CHANDANKUMAR M      | Chandankumar M      |
| 116 | 4AD24EC404 | CHARAN M N          | Charan M N          |
| 117 | 4AD24EC405 | CHETHANA T          | Chethana T          |
| 118 | 4AD24EC406 | DEEKSHITH Y V       | Deekshith Y V       |
| 119 | 4AD24EC407 | GAGANGOWDA C S      | Gagangowda C S      |
| 120 | 4AD24EC408 | HEMAVATHI H V       | Hemavathi H V       |
| 121 | 4AD24EC409 | MANORANJAN V        | Manoranjan V        |
| 122 | 4AD24EC410 | PAVAN KUMAR H C     | Pavan Kumar H C     |
| 123 | 4AD24EC411 | POORVITH M GOWDA    | Poorvith M Gowda    |



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|     |            |                   |                        |
|-----|------------|-------------------|------------------------|
| 124 | 4AD24EC412 | PRADHAN K         | <i>Pradhan K</i>       |
| 125 | 4AD24EC413 | PRUTHVI P         | <i>Pruthvi P</i>       |
| 126 | 4AD24EC414 | RAHUL M G         | <i>Rahul</i>           |
| 127 | 4AD24EC415 | RAJU I D          | <i>Rajeev ID</i>       |
| 128 | 4AD24EC416 | S SHIVU           | <i>S Shivu</i>         |
| 129 | 4AD24EC417 | SANJU N           | <i>Sanju N</i>         |
| 130 | 4AD24EC418 | SHIVU B           |                        |
| 131 | 4AD24EC419 | SIDDARAJU H S     |                        |
| 132 | 4AD24EC420 | SOMASHEKARA P S   | <i>Somashekara P S</i> |
| 133 | 4AD24EC421 | SUDEEP C          | <i>Sudeep C</i>        |
| 134 | 4AD24EC422 | TEJASWI D MADESHA | <i>Tejaswi D</i>       |
| 135 | 4AD24EC423 | YATHEESH          | <i>Yatheesh</i>        |



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# Report on Technical talk “End-to-End Automation for Modern Applications: CI/CD Workflows, Python in Daily Life, and Cloud-Based Data Extraction”

**Date: 04<sup>th</sup> April 2025**

**Organized by**

**Department of Electronics & Communication Engineering**

**In association with IETE Student Forum**

**ATME College of Engineering, Mysuru**



**A T M E**<sup>®</sup>  
College of Engineering



**Dept. of Electronics & Communication Engineering**  
**In association with IETE Student Forum**



**Organises a  
Technical talk on**

**“End-to-End Automation for  
Modern Applications:  
CI/CD Workflows, Python in  
Daily Life & Cloud-Based Data  
Extraction”**

**Date: 04/04/2025**

**Time: 10:00 AM**

**Venue: 401 (Admin Block)**

**Resource Person**



**Mr. VISHWAS K SINGH**  
Subject Matter Expert - FSD  
CloudThat Technologies Pvt Ltd  
Bangalore

**Principal**  
**Dr. Basavaraj L**  
ATMECE, Mysuru

**ISF Coordinator**  
**Ms. Anupama Shetter**  
Asst. Prof. Dept. of ECE



**HOD & Convener**  
**Dr. Prathibha M K**  
ATMECE, Mysuru

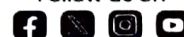
**Coordinators**

**Mrs. Nandini G S**  
Asst. Prof. Dept. of ECE

**Mr. Rajeev Gowda R**  
Asst. Prof. Dept. of ECE

Phone: 0821-2954081 | 0821-2954011  
Email: info@atme.edu.in | Website: www.atme.edu.in  
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The Department of Electronics and Communication Engineering in association with IETE Student forum had organized a technical talk on "End-to-End Automation for Modern Applications: CI/CD Workflows, Python in Daily Life, and Cloud-Based Data Extraction" on 04<sup>th</sup> April 2025 to the students of 4<sup>th</sup> Sem in Seminar Hall of the Department.

Mr. Vishwas K Singh, CloudThat Technologies, Bengaluru, India was the Guest Speaker.



### About the Technical Talk.

End-to-end automation is essential in modern software development, combining CI/CD workflows, Python scripting, and cloud-based data extraction to create efficient, scalable systems. These practices help automate repetitive tasks, ensure consistent deployment, and enable faster development cycles. By integrating these components, teams can streamline operations, reduce human error, and focus more on innovation than maintenance.

CI/CD (Continuous Integration and Continuous Deployment) enables automated building, testing, and deployment of applications. With tools like GitHub Actions, Jenkins, and GitLab CI, developers can push code that is instantly validated and deployed, reducing the time between writing code and delivering value. Docker and Kubernetes further enhance this process by providing consistent environments and scalable infrastructure for running applications reliably in production.

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Python scripting adds powerful, flexible automation capabilities for everyday tasks. Whether it's organizing files, sending scheduled emails, scraping web content, or integrating with APIs, Python makes automation accessible and efficient.

Finally, cloud-based data extraction plays a vital role in gathering and processing data from platforms like Google Drive, AWS, and GCP. Combining these capabilities with CI/CD and automation scripts enables the creation of end-to-end data workflows—like pulling reports, processing them, and sending summaries via email—all without manual involvement. Together, these technologies form the foundation of modern, intelligent automation systems.

### Outcome:

Students were able to understand by integrating CI/CD workflows, Python automation, and cloud-based data extraction, teams and individuals can build highly efficient, self-sustaining systems that minimize manual effort and maximize productivity. The key outcomes include:

- **Faster and Reliable Deployments:** Code changes are tested and deployed automatically, reducing time-to-market and minimizing production errors.
- **Streamlined Daily Operations:** Routine tasks like data processing, file handling, and reporting are automated using Python, freeing up time for higher-value work.
- **Scalable Data Handling:** Data from cloud platforms is automatically extracted, processed, and integrated into business workflows, supporting better decision-making.
- **End-to-End Workflow Automation:** From source code to deployment and data reporting, every step is connected and automated, creating a seamless and adaptive development environment.

This approach not only improves operational efficiency but also empowers teams to build smarter, more resilient applications that evolve with changing demands.

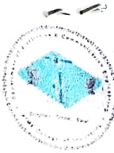
### Glimpses of Event:



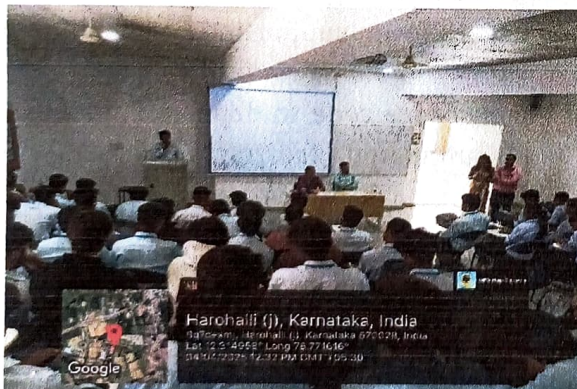
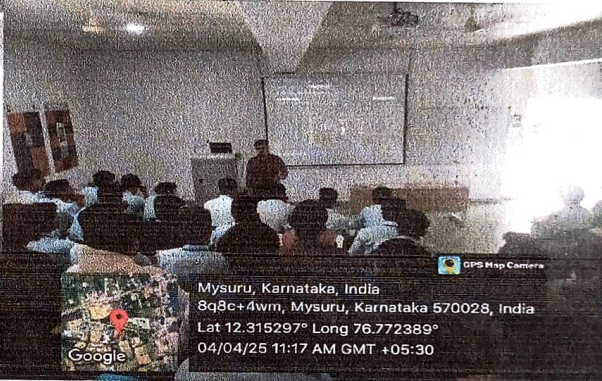


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Event Report Prepared by Event Coordinator.

*Nandini G S*  
**Mrs. Nandini G S**  
Assistant Professor

*Rajeev*  
**Mr. Rajeev Gowda R**  
Assistant Professor

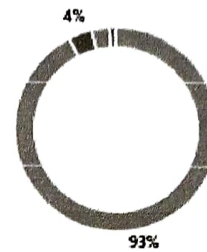
Responses Overview Active

| Responses                                                                             | Average Score                                                                          | Average Time                                                                              |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 107  | 14.3  | 03:44  |

3. What does CI/CD stand for in the context of software development? (1 point)

93% of respondents answered this question correctly.

- Continuous Integration and Continuous Deployment 99 ✓
- Constant Improvement and Code Delivery 4
- Critical Infrastructure and Data Collection 3
- Centralized Information and Control Distribution 1



4. Which of the following is a primary benefit of implementing CI/CD workflows? (1 point)

93% of respondents answered this question correctly.

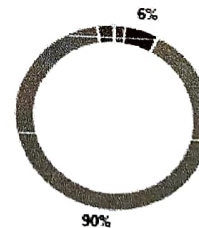
- Increased manual testing efforts 5
- Faster release cycles and reduced risk 99 ✓
- Decreased collaboration among developers 3
- Slower feedback loops and delayed deployments 0



5. In CI/CD, which stage involves automatically building and testing code changes? (1 point)

90% of respondents answered this question correctly.

- Deployment 2
- Monitoring 6
- Integration 96 ✓
- Planning 3



6. What is a common use case for Python in daily life, especially in automation? (1 point)

88% of respondents answered this question correctly.

- Designing graphical user interfaces exclusively 4
- Performing complex hardware simulations only 7
- Automating repetitive tasks and scripting 94 ✓
- Manually managing database entries 2

