



**V.S.B. ENGINEERING COLLEGE**  
**(An Autonomous Institution)**  
**(Anna University Recognized Research Institute)**

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai  
NBA Accredited Courses, Accredited by NAAC

# NEWS LETTER

2024-2025





**FOUNDER OF V.S.B**  
Shri. V.S. Balsamy B.Sc., L.L.B.,

### CHAIRMAN'S MESSAGE

It brings me immense pride and joy to witness the remarkable growth and accomplishments of V.S.B College of Engineering Technical Campus. Since its inception, the institution has stood firm on the foundation of quality education, discipline, and innovation, values that continue to guide our path forward.

In today's dynamic world, education must go beyond the confines of textbooks. At VSBCTC, we strive to create an environment where students are inspired to think creatively, act responsibly, and lead with integrity. Our focus has always been on shaping technically proficient, ethically grounded, and socially responsible professionals who can contribute meaningfully to society.

I am particularly proud of our faculty members, who consistently set benchmarks in teaching and research, and our students, who continue to make us proud through their achievements in academics, industry, innovation, and extracurricular pursuits.

Through this magazine of the department of Artificial Intelligence and Data Science, we present a glimpse of the vibrant academic life, milestones, and memories that define our institution. As we move ahead, I assure you that we will continue to adapt, grow, and uphold our mission of delivering excellence in education.

Let us continue to dream big, aim high, and build a future that reflects the best of our potential!

### **VISION OF THE INSTITUTE**

We endeavor to impart futuristic technical education of the highest quality to the student community and to inculcate discipline in them to face the world with self-confidence and thus we prepare them for life as responsible citizens to uphold human values and to be of services at large. We strive to bring up the Institution as an Institution of Academic excellence of international standard.

### **MISSION OF THE INSTITUTE**

We transform persons into personalities by the state of the art infrastructure, time consciousness, quick response and the best academic practices through assessment and advice.

## **VISION OF THE DEPARTMENT**

To offer a quality education in Computer Science and Engineering, encourage life-long learning and make graduates responsible for society by upholding social values in the field of emerging technology.

## **MISSION OF THE DEPARTMENT**

The Department strives to contribute to the expansion of knowledge in the discipline of Computer Science and Engineering and aims:

- To produce graduates with sound technical knowledge and good skills that prepare them for a rewarding career in prominent industries.
- To promote collaborative learning and research with Industry, Government and International organizations for continuous knowledge transfer and enhancement.
- To promote entrepreneurship and mould the graduates to be leaders by cultivating the spirit of social and ethical values.

### **PROGRAMME EDUCATIONAL OBJECTIVES :**

**PEO1:** Work in Multinational companies and become successful IT professionals.

**PEO2:** Pursue higher studies and have their career in educational institutions research organizations, or be entrepreneurs.

**PEO3:** Possess social responsibility, team work skills, leadership capabilities and urge for learning in their professional fields.

## PROGRAM OUTCOMES (PO)

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

## PROGRAM SPECIFIC OUTCOMES

### PSO1

Addressing societal problems through design and development of software and firmware solutions using latest Computer Science tools and technologies.

### PSO2

Involving students enthusiastically in software development, software testing, storage, computing and business intelligence sectors.

### PSO3

Making them to use their technical expertise in latest technologies and update knowledge continuously in Computer Science and Engineering to excel in career.



**DR.T.KalaiKumaran**  
HoD-CSE



**Mrs.V.RADHA**  
HoD-CSE



**Dr.Rinesh.S**  
**AHoD-CSE**



**Dr.Divya.S.V**  
**AHoD-CSE**

## PAPER PUBLICATIONS BY FACULTY:

# Transforming Big Data Challenges into Opportunities: An In-depth Analysis of Microsoft Power BI for Analytics and Visualization

David Glass  
Department of Economics and  
Constitutive Engineering  
Massachusetts Institute  
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Editions Généalogiques  
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In the studies for descriptive research, the data collected are categorized into two main types: quantitative and qualitative. Quantitative data are collected through numerical measurements, such as counts, measurements, and percentages. Qualitative data are collected through descriptive, narrative, and observational methods, such as interviews, case studies, and content analysis. The choice of data collection method depends on the research question and the type of data needed.

Computer technology has made possible the rapid growth of data collection and analysis. As a result, the volume of data collected has increased exponentially. The challenge of managing this data has been increased by the need to process it in a timely and accurate manner. This paper explores the use of data mining techniques to provide a more efficient and effective way of handling data and to support decision making processes.

Harold Bawden, *Professor of Management*  
MISYU, University of Management  
Technology, Sector 102,  
Noida, India  
hbaud@management.edu

allowing access to data analysis and learning a data science culture within organizations. It is an important step in the development of the discipline to move from a static state space to handle large amounts of data quickly, which is a necessary step.

This article is organized as follows: first, we briefly introduce the background and context of this work. Then, we introduce the main contributions of this article. Finally, we conclude the article with a discussion of the future implications of this work.

4. *Contribution of the field*  
The contributions of this study are:

- Developed an experimental design for improving the PEST classification and
- Demonstrated that using 3D as a reference value produces better classification
- Identified the conditions to achieve a high performance in the classification of forest cover types.

The use of this design is illustrated in Section 7 (Figure 10) and represents the reference method used in Section 5. The proposed experimental design has generated, in Section 6, the proposed methodology, results and discussion are presented. Finally, Section 7 presents concluding remarks and discussion.

380 *Journal of Health Politics*

Improving Microsoft Word 2010's online collaboration highlights its most applicability and effectiveness in efficiency.

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Collective Bargaining Agreement - Standardized on April 01, 2016 at 04:18:18 (77746-1000) Index: Standardized April 01, 2016 at 04:18:18 (77746-1000)

The paper titled "Transforming Big Data Challenges into Opportunities: An In-depth Analysis of Microsoft Power BI for Analytics and Visualization" provides a comprehensive evaluation of Microsoft Power BI as a solution for managing and visualizing large-scale data. Authored by Piyush Chatur, K. Hema Latha, Neelamegam G, Rajiv Verma, Subhram Pal, and Ganesh Ramesh Telumbude from various academic institutions across India, the study highlights Power BI's capabilities in integrating, analyzing, and visualizing data to support real-time analytics and decision-making. It emphasizes the tool's relevance for researchers and professionals in overcoming big data challenges and enhancing business intelligence.

# Multi-Agent Systems for Autonomous IoT Network Management Using Distributed Reinforcement Learning

Journal of  
Engineering and  
Technology  
Education Society  
Volume 30 Number  
1 Spring 2002

University of  
Engineering College  
Sugra, Tando Nabi Khan  
88001, Sindh, Pakistan

ANSWER

The research paper titled "Multi-Agent Systems for Autonomous IoT Network Management Using Distributed Reinforcement Learning" was presented at the 2023 3rd International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC). Authored by Neelamegam G, Rajaram Venkatesan, Ramu SR, R.S. Ramya, Akshay J, M. Sundaramoorthy, and Manoj Deepak Choudhary from various engineering institutions in Tamil Nadu, the paper addresses the limitations of centralized IoT network management and proposes a distributed reinforcement learning-based multi-agent framework. This system enables intelligent traffic classification, anomaly detection, and resource allocation, validated through simulations and real-world data, demonstrating improved throughput, latency, and scalability for autonomous IoT environments.

of a challenging task [27] that contains specific instructions for the learner to follow in order to successfully perform a task. The term 'instructional game' refers to a game that is designed to teach a skill or knowledge [28]. Therefore, instructional games are a type of game that is designed to teach a skill or knowledge [28]. These games are a single stage game and the decision making is limited to the player's choice of action [29]. However, instructional games do not always have to be a single stage game, as they can be a multi-stage game [30]. In this study, the instructional game was a single stage game, as the player had to make a decision on what action to take in order to adapt their performance to the task and, therefore, to complete the task. The instructional game was designed to make the player learn about the task and how to perform it [31]. The instructional game was designed to make the player learn about the task and how to perform it [31]. The instructional game was designed to make the player learn about the task and how to perform it [31]. The instructional game was designed to make the player learn about the task and how to perform it [31]. Although there has been a decline of EBLs in the past [32], the use of EBLs in ergonomics, especially in the field of ergonomics, is increasing [33]. This is due to the fact that EBLs are more effective than traditional methods in large scale tasks [34].

In the context of growing self-service of freight-haul systems deployment is inferior to more static, rigid, automated, stochastic, and centralized resources consisting of complex electronic networks that function as

towards data between individuals and the *Yeast* measurement. In conclusion, errors, model corrections, and a lack of a formal strategy to analyse the results that come from the *AI* Screening Test measurement are necessary; otherwise, any detected, share are shared with laboratories that contribute these values and information. The *AI* Screening Test audience includes all people

## JOURNAL PUBLICATIONS BY FACULTY

12

## Case Study on Flyover Construction and the Air Quality Measurement by the Emission Level of Pollutants

S.P. Müller<sup>1</sup>, C. Stachler<sup>2</sup>, S. Thaler<sup>1</sup>, Blaauw V., Gross M<sup>3</sup> and Weiland<sup>1</sup> (Received 11 January 2007; accepted 12 April 2007)

Department of Electronics and Communication Engineering  
Centre for Interdisciplinary Research, Karpagam Academy of Higher Education

Constitutive Pathway

Department of B.Tech, Kalyanpur College of Engineering, Kutch, India  
Department of Commerce, Science and Humanities

175 B- College of Engineering Advanced Computer Communication, Data

Department of Mechanical Engineering, Amritapuri School of Engineering

Journal of Clinical and Medical Sciences (JCMS) is a peer-reviewed, open-access journal that publishes original research, reviews, and case reports in the field of clinical and medical sciences.

South Africa

www.ijerpi.org

A. L. G. T. Y.

In the present condition, the advance of transportation technology allows countries to use land transport for their mobility needs. However, more population and increased public transportation networks have increased traffic levels. Hence, construction is implemented in urban areas for the easy movement of vehicles. Significant blocks during the construction of the roads are the distances of roads that blocks in traffic congestion, the greater travelling distances to reach the destination points, and the fuel consumption of vehicles. The level of air pollution due to automobile emissions leads to health related issues for the people residing near the flyover construction sites. The pollution is based on the level of pollutants such as Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>),

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 Arun: +91-31-22860000-1195-1900

A. Serey, T. Hua, G. Dang and M. Hadiadi / Environmental Monitoring Using Artificial Intelligence 1999, issue 3 (1999) 193-200

170

This research paper titled "Case Study on Flyover Construction and the Air Quality Measurement by the Emission Level of Pollutants" investigates the environmental impact of urban flyover construction, particularly its effect on air quality.

The paper titled "Quantum Lamport One-Time Digital Signature Cryptography for Secured Data Communication for Industrial IoT" by Flindson W.G.J. and Divya S.V.P., published in BRADLEYA (Vol. 43, Issue 1, 2023), explores a secure communication model for Industrial Internet of Things (IIoT) using quantum cryptographic techniques.

# QUANTUM-LAIDPOINT ONE-TIME DIGITAL SIGNATURE CRYPTOGRAPHY FOR SECURED DATA COMMUNICATION FOR INDUSTRIAL IoT

Estados Unidos (2005)

<sup>7</sup>Department of Computer Science and Engineering, VIT Bhopal College of Engineering  
Deemed to be University, Deemed to be University, Bhopal, India



# PATENT PUBLICATIONS BY FACULTY



The Patent Office Journal No. 09/2021 Date: 26/05/2021

21/607

The image outlines various tools available in a system, each serving a distinct function. These include tools for generating or editing images, searching the web for fresh and authoritative information, storing or deleting user memory facts, executing Python code for data visualization, and creating multiple-choice quizzes.

The Indian patent application (No. 20234104016 A, published on 28/02/2025) titled "Context-Aware Machine Learning Framework for Personalized Recommendations in E-Commerce" proposes an adaptive system to enhance recommendation accuracy and user engagement.



The Patent Office Journal No. 10/2021 Date: 01/06/2021

307

作为对政治和经济的共同的负面影响

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|                                  |  |
|----------------------------------|--|
| (1) International classification | CHRONOLOGICAL, BIBLIOGRAPHICAL AND SUBJECT INDEXES BASED ON THE SUBJECTS |
| (2) International classification | ART BIBLIOGRAPHY   |
| a) International                 |  |
| a) Subject Index                 | N/A  |
| b) Chronological                 | N/A  |
| b) International                 |  |
| a) Subject Index                 | N/A  |
| b) Chronological                 | N/A  |
| c) International                 |  |
| a) Subject Index                 | N/A  |
| b) Chronological                 | N/A  |
| d) International                 |  |
| a) Subject Index                 | N/A  |
| b) Chronological                 | N/A  |

This research proposes an alternative solution for streamlining avoided tax-revenue obligations, increasing the integration of business of Philip Morris' brands, shared computing, and machine learning algorithms. We will discuss, updated with reference to market dynamics, how brands, which largely compete (PMUs) and, as might be inferred, cannot share information between them. This study's main contribution is to propose a shared architecture for offices managing/analyzing, machine learning algorithms, maintaining a comprehensive dataset of source readings from both field and specialized sensors (therefore able to directly measure indicators of C19 progression and its impact on the system). The system's main idea is to use the raw data to measure indicators and to predict the progression and outcome of the system. This system is significantly more robust, efficient, reduced field safety, and prevents multiple inquiries in field operations.

#### The *ad finem* of the *ad finem* of

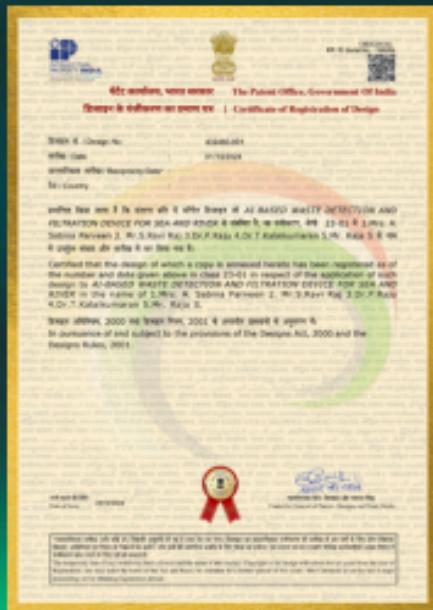
The Journal of Neuroscience, 30(2010), 10000–10010

144

This Indian patent application (No. 20244110711 A), filed on 22 December 2024 and published on 3 January 2025, introduces an IoT-enabled system for detecting meat spoilage inside refrigerators using cloud computing and AI.

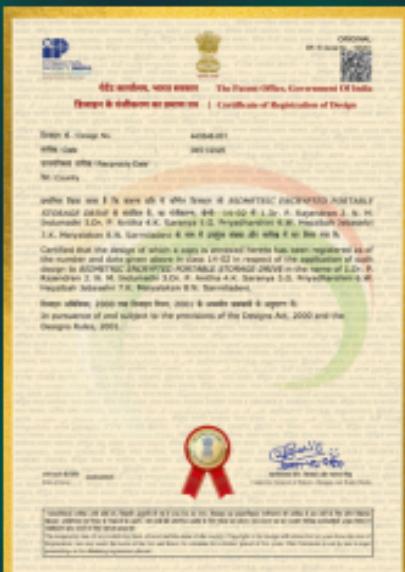
This Indian patent application (No. 202541018529 A), filed on 3 March 2025 and published on 14 March 2025, introduces a machine learning-based intrusion detection system designed to tackle imbalanced network traffic.

## DESIGN BY FACULTY



This document is an official Certificate of Registration of Design issued by The Patent Office, Government of India, under the Designs Act, 2000 and Designs Rules, 2001. It certifies the registration of a design titled "AI-Based Waste Detection and Filtration Device for Sea and River" under Class 23-01, bearing Design No. 432460-001 dated 01/10/2024. The design is registered in the names of Mrs. A. Sabina Parveen, Mr. S. Ravi Raj, Dr. P. Raju, Dr. T. Kalakumaran, and Mr. Raja S. The certificate confirms legal recognition and protection of the design, with an annexed copy and official seals validating its authenticity.

This Certificate of Registration of Design, issued by The Patent Office, Government of India, confirms the official registration of a design titled "Biometric Encrypted Portable Storage Drive" under Class 14-02, with Design No. 443548-001 dated 08/01/2025. The design is registered in the names of Dr. P. Rajendran, N. M. Indumathi, Dr. P. Anitha, K. Saranya, G. Priyadharshini, W. Hepzibah Jebaselvi, K. Meiyalakkan, and N. Sanmilaidevi. Granted under the provisions of the Designs Act, 2000 and Designs Rules, 2001, the certificate bears the official seal and signature of the Controller of Designs, affirming its legal validity and recognition.



# CERTIFICATES BY FACULTIES



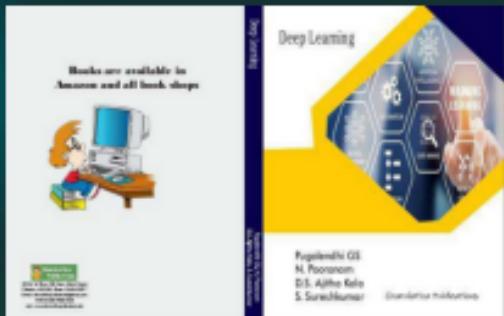
Dr. S V Divya from the Computer Science and Engineering department of V.S.B College of Engineering Technical Campus received a Certificate of Participation for actively attending a One Day Free Online Faculty Development Program (FDP) on "Data Science Using Python."

Mrs. T. Hemalatha, Assistant Professor in the CSE department of VSB College of Engineering Technical Campus, Coimbatore, participated in the "Seminar on AI for Teaching and Learning" held on 26 December 2024.



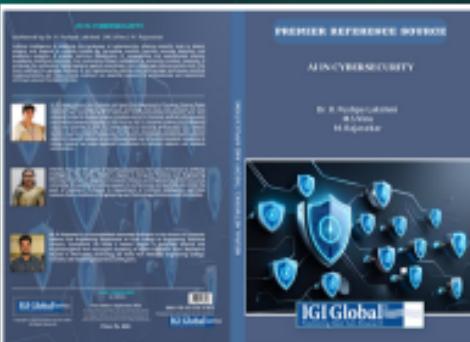
Mrs. B. Subashree, Assistant Professor in the CSE department at VSB College of Engineering Technical Campus, Coimbatore, participated in the "Seminar on AI for Teaching and Learning" held on 26 December 2024.

## BOOK PUBLICATION BY FACULTY



The book titled "Deep Learning" is authored by Pugalendhi GS, N. Pooranam, D.S. Ajitha Kala, and S. Sureshkumar, and published by Charulatha Publications. Its front cover features a modern digital design with hexagonal icons representing key concepts such as Artificial Intelligence, Machine Learning, Automation, Data Mining, and Deep Learning, alongside a hand interacting with the interface.

The book "AI in Cybersecurity" is authored by Dr. R. Pushpa Lakshmi, M.S. Vinu, and M. Rajasekar, and published by IGI Global as part of its Premier Reference Source series. It explores how artificial intelligence technologies like machine learning and deep learning are transforming cybersecurity through applications in threat detection, malware analysis, intrusion detection, and network protection, while also addressing ethical challenges. Designed for researchers, professionals, and students, the book offers a comprehensive overview of AI-driven security solutions. The authors are experienced faculty members from Panimalar Engineering College, Chennai, with extensive teaching, research, and publication credentials in AI and cybersecurity.



## FDP PARTICIPATION BY FACULTIES



Dr. S V Divya, a faculty member of V.S.B College of Engineering Technical Campus, successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Sustainable Carbon-Free Technologies for Hydrogen Generation and Storage.

Mrs. Ananthalakshmi C G, Assistant Professor at VSB College of Engineering Technological Campus, Coimbatore, successfully participated in the AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Quantum Computing - Research Perspective in Healthcare Applications."



# NPTEL BY STUDENTS



## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

**S.ROSHINI**

for successfully completing the course

**Data Base Management System**

with a consolidated score of **45 %**

**Online Assignments : 15.2125 | Peer-reviewed Exam : 30/75**

Total number of candidates certified in this course: **8423**

Jan-Mar 2025

(8 week course)



**S. Roshini** successfully completed the NPTEL online certification course on "Data Base Management System" offered by IIT Kharagpur from January to March 2025.



Indian Institute of Technology Kharagpur

Batch No: NPTEL202310004510044

To verify the certificate



No of credits recommended: 2 or 3

**VASUNTHRAA G** successfully completed the NPTEL online certification course on "Data Base Management System" conducted by IIT Kharagpur from January to March 2025.



## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

**VASUNTHRAA G**

for successfully completing the course

**Data Base Management System**

with a consolidated score of **85 %**

**Online Assignments : 21.8425 | Peer-reviewed Exam : 30/75**

Total number of candidates certified in this course: **8423**

Jan-Mar 2025

(8 week course)



## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

**DARSHITHA D**

for successfully completing the course

**Python for Data Science**

with a consolidated score of **98 %**

**Online Assignments : 33.8705 | Peer-reviewed Exam : 30/115**

Total number of candidates certified in this course: **15291**



Indian Institute of Technology Madras

Batch No: NPTEL202310004510044

**SANGEETHA D** successfully completed the NPTEL online certification course titled "Python for Data Science," conducted by IIT Madras from January to February 2025.



## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

**M. VENKATESH**

for successfully completing the course

**Python for Data Science**

with a consolidated score of **98 %**

**Online Assignments : 33.8705 | Peer-reviewed Exam : 30/115**

Total number of candidates certified in this course: **15291**



Indian Institute of Technology Madras

Batch No: NPTEL202310004510044

To verify the certificate



No of credits recommended: 2 or 3

# ONLINE CERTIFICATES BY STUDENTS



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**LIGETH.V**

for successfully completing the course

**Fundamentals of the C Language: Variables & Datatypes**

on February 9, 2025



**Infosys | Springboard**

Congratulations! You make us proud!

  
Ligeth V  
Student Name  
Signature for Student's acknowledgement  
Disclaimer: This is a sample certificate.

Ligeth V successfully completed the Infosys Springboard course titled "Fundamentals of the C Language: Variables & Datatypes" on 9 February 2025

Haritha Haritha  
successfully completed  
the Infosys Springboard  
course titled "Financial  
Literacy" on 9 February  
2025.

## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Haritha Haritha**

for successfully completing the course

**Financial Literacy**

on February 9, 2025

**Infosys | Springboard**

Congratulations! You make us proud!

  
Haritha Haritha  
Student Name  
Signature for Student's acknowledgement  
Disclaimer: This is a sample certificate.



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Jacqueline L**

for successfully completing the course

**Financial Literacy**

on February 9, 2025



Congratulations! You make us proud!



Issued on February 9, 2025  
To verify, scan the QR code at <https://www.infosys.com/certificates>



Jacqueline L successfully completed the Infosys Springboard course titled "Financial Literacy" on 9 February 2025.

Pragalathan g has successfully completed the "Basics of Python" course offered by Infosys through its Springboard platform on January 16, 2025



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Pragalathan ggg**

for successfully completing the course

**Basics of Python**

on January 16, 2025



Congratulations! You make us proud!



Issued on February 16, 2025  
To verify, scan the QR code at <https://www.infosys.com/certificates>



# OUTSIDE COLLEGE EVENTS



KalaiVani M from V.S.B. College of Engineering Technical Campus participated in the Tech Event-J-LEAGUE, which was part of Sri Eshwar THIRAN 2025—a national-level inter-college technical, cultural, and sports fest

Prasanth G from V.S.B College of Engineering and Technical Campus participated in "CICADA'25," a National Level Hackathon held on 30 and 31 October 2025.





Kalaivani M from V.V.S.B. College of Engineering Technical Campus participated in the Tech Event-J-LEAGUE, held as part of Sri Eshwar THIRAN 2025, a national-level inter-college technical, cultural, and sports fest

Ms. Sree Gayathree R from VSB College of Engineering Technical Campus participated in the five-day workshop titled "HACKSTACK'25





## EDITORIAL TEAM

### **Faculty Team:**

1. Mrs.V.Radha, HOD/CSE
2. Mr.M.Bharathi Raja, AP/CSE

### **Students Team(III Year):**

1. Kavin
2. Naveen
3. Monisha

### **Students Team(IV Year):**

1. Eshwar Kumar
2. Dhanush
3. Arul

Thank  
you!