STUDENT PORTFOLIO

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Department: NWC
Specialization: IoT
Semester: 3
Website- https://shauryasrinet.me/

Subject Title: 18CSC201J Data Structures and Algorithms
Handled By: Ms. T. Y. J. Nagamalleswari

Assignment – Crossword Puzzle (Unit 1,2,3, & 4)

1. Assignment questions were medium-levelled questions.
2. The crosswords covered all topics of the units.
3. Solved the questions by taking help from PPT, PDFs shared by the faculty and a little bit help from google.

Assignment

1. Test Cases in the questions were very interesting and logical.
2. Questions are given in the Codechef platform which helps us get a rank in Codechef globally.
3. Gives a feeling of competitive coding.

Codechef Achievements

1. Participated in SnackDown 21 and qualified for round 1.
2. Highest Rating – 1510.
3. Reached Div 3 January Long 2022 – II and was ranked 10384 globally.

Any other

1. Badges earned in Hackkerank (C, C++, Python).
2. Five Verified Skills earned – Python (Basic), SQL (Basic), SQL (Intermediate), Problem Solving (Basic), Problem Solving (Intermediate).
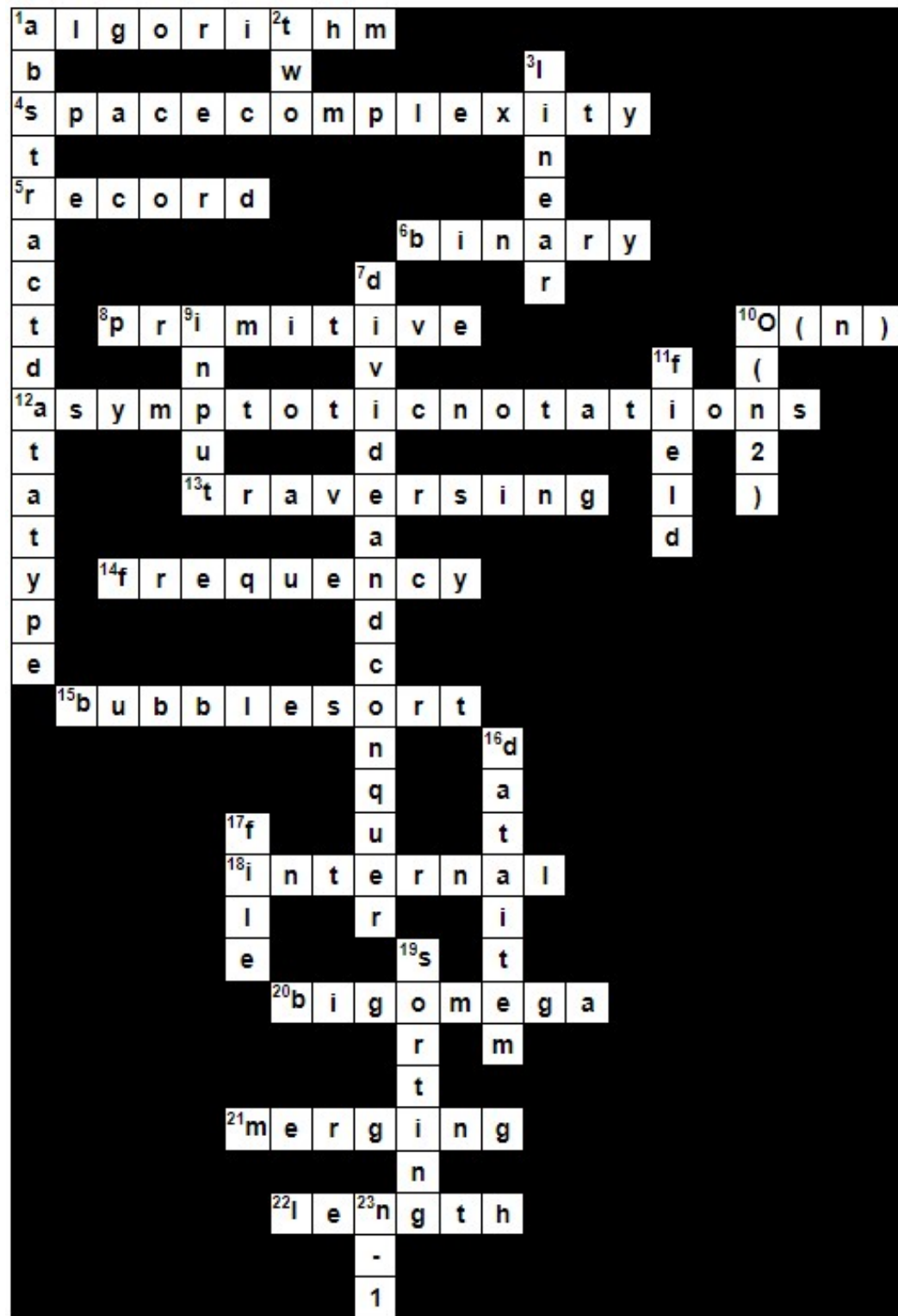
Signature

ENCLOSED:
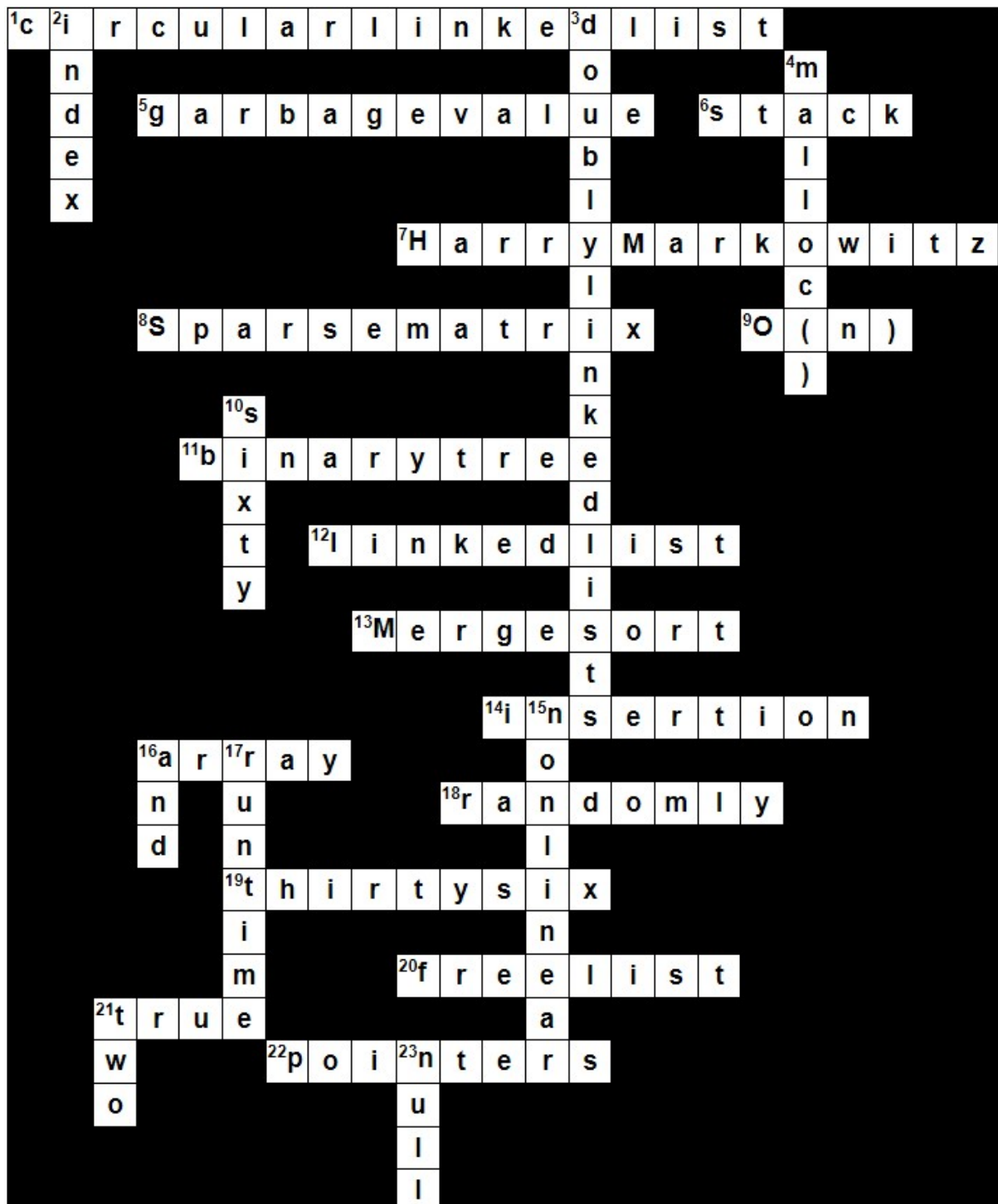**Assignment Screenshots - 4**
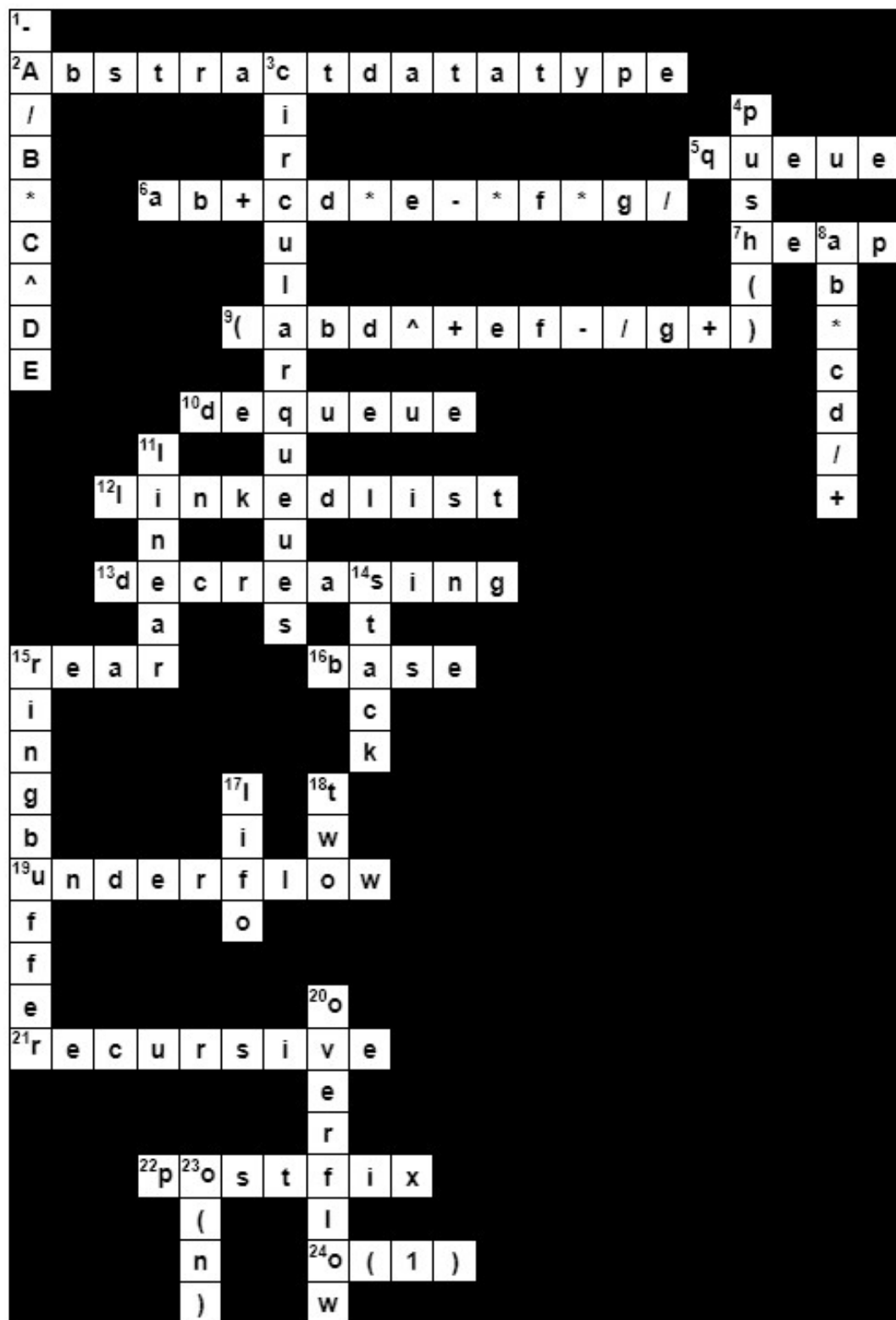**CodeChef Profile - 1**
Certficates – 7

ASSIGNMENT QUESTIONS SNAPSHOTS

Unit-1

Across:
1. algorithm
4. space complexity
5. record
6. binary
8. primitive
10. O (n)
12. asymptotic notations
13. traversing
14. frequency
15. bubblesort
18. internal
20. bigomega
21. merging
22. length-1

Down:
2. tw...
3. l...
7. div...
9. input
11. f(
16. dat...
17. f...
19. s...
23. n...

	a	l	g	o	r	i	t	h	m				
b							w				l	
s	p	a	c	e	c	o	m	p	l	e	x	i	t	y
t										n	
r	e	c	o	r	d					e	
a							b	i	n	a	r	y
c						d				r	
t		p	r	i	m	i	t	i	v	e			O (n)
d			n			v				f	(
a	s	y	m	p	t	o	t	i	c	n	o	t	a	t	i	o	n	s
t			u			d				e	2
a			t	r	a	v	e	r	s	i	n	g	l	)
t						a				d	
y		f	r	e	q	u	e	n	c	y	
p						d	
e						c	
b	u	b	b	l	e	s	o	r	t	
						n		d	
						q		a	
				f		u		t	
				i	n	t	e	r	n	a	l
				l		r		i	
				e			s	t	
					b	i	g	o	m	e	g	a
						r		m	
						t		
				m	e	r	g	i	n	g
						i		
				l	e	n	g	t	h
						-	
						1	

Unit-2

Across

1. circular linked list
5. garbage value
6. stack
7. Harry Markowitz
8. Sparse matrix
9. O(n)
11. binary tree
12. linked list
13. Merge sort
14. insertion
16. array
18. randomly
19. thirty six
20. free list
21. true
22. pointers

Down

2. index
3. doubly linked list
4. malloc
10. sixty
15. notional
16. and
17. run
19. time
21. two
23. null

Unit-3

Crossword grid (filled):

- **1.** -
- **2A (across):** A b s t r a c t d a t a t y p e
- **3c (down):** c i r c u l a r
- **4p (down):** p s
- **5q (across):** q u e u e
- **6a (across):** a b + c d * e - * f * g /
- **7h (across):** h e a p ... h e ( )
- **8a (down):** a b * c d / +
- **9((across):** (a b d ^ + e f - / g +)
- **10d (across):** d e q u e u e
- **11l (down):** l i n
- **12l (across):** l i n k e d l i s t
- **13d (across):** d e c r e a s i n g
- **14s (down):** s t
- **15r (across):** r e a r
- **16b (across):** b a s e
- **16b (down):** b a c k
- **17l (down):** l i f o
- **18t (down):** t w o
- **19u (across):** u n d e r f l o w
- **15r (down):** r i n g b ... u f f e r
- **20o (down):** o v e r
- **21r (across):** r e c u r s i v e
- **22p (across):** p o s t f i x
- **23o (down):** o (n)
- **24o (across):** o (1)

Unit-4

Crossword Grid (Unit-4)

Across:
- 3. (N - 1)
- 4. PRE - ORDER TRAVERSAL
- 6. DEGREE OF NODE
- 9. POST ORDER TRAVERSAL
- 10. THREAD
- 12. IN - ORDER TRAVERSAL
- 13. SELF BALANCING BINARY SEARCH
- 14. TQ O P S R
- 16. PRIORITY QUEUE
- 17. INTERNAL NODES
- 18. FALSE
- 19. RED - BLACK
- 20. HIERARCHICAL
- 21. LINKED LIST
- 23. O (N)
- 24. TRUE

Down (visible letters):
- 1. B - T
- 2. M W A Y
- 5. R I H R T O O N O F S U B T E
- 7. Z I G - Z I G
- 8. Z G
- 11. H E I G H
- 15. O (1)
- 22. D E P T H
- 21. L N M O Q P T

CodeChef Profile

SHAURYA SRINET

Username:	2★ lucky_lad
About Me:	I am a Tech-Enthusiast, Hard-working IoT major student currently enrolled in SRMIST, Chennai. Aiming to leverage proven leadership, problem-solving, and technical skills to successfully be placed at y
Country:	India
Motto:	Where's your will to be weird?
Link:	https://shauryasrinet.me/
Student/Professional:	Student
Institution:	SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu Kattankulathur, Tamil Nadu, India
Teams List:	List of teams by SHAURYA SRINET
Team Invites:	Click here to check team invites. 0
Discuss Profile:	You have never logged into Discuss.
CodeChef Pro Plan:	No Active Plan. View Details

Submission Heat Map New
(Last 6 Months)
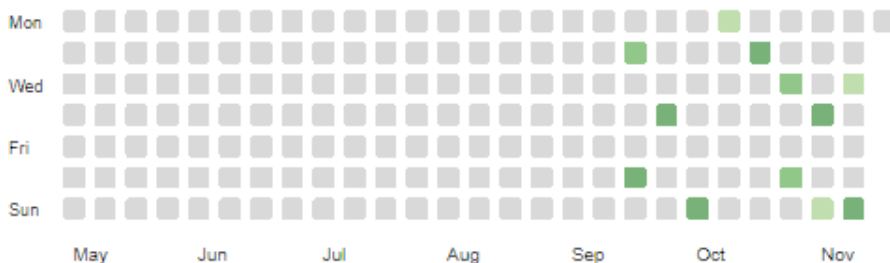
1434? ⓘ
(Div 3)
★ ★

CodeChef Rating
(Highest Rating 1510)

72709	67003
Global Rank	Country Rank

Badges

Contest Contender - Bronze Badge
2 / 5
Participate in 3 more Contests to get Bronze Badge

Problem Solver - Bronze Badge
62 / 250
Solve 188 more Problems to get Silver Badge

Daily Streak - Bronze Badge
1 / 5
Maintain streak for 4 more days to get Bronze Badge

CodeChef Performance Screenshot

My Performance

2nd Year

Overall Performance

lucky_lad 2★

Username: **lucky_lad**

Current Score	Current Rank	CodeChef Rating
16400	6	1434

Practice

Total Score: **14400**

S.No	Contest Code	Scores	Contest Rank
1	SRMK2PP02 ↗	500	1
2	SRMK2PP03 ↗	500	1
3	SRMK2PP04 ↗	500	1
4	SRMK2PP05 ↗	500	1
5	SRMK2PP06 ↗	10400	1
6	SRMK2PP07 ↗	500	1
7	SRMK2PP08 ↗	500	1
8	SRMK2PP09 ↗	500	1
9	SRMK2PP10 ↗	500	1

Assignment

Total Score: **2000**

S.No	Contest Code	Scores	Contest Rank
1	SRMK2AP01 ↗	200	1
2	SRMK2AP02 ↗	200	1
3	SRMK2AP03 ↗	200	1
4	SRMK2AP04 ↗	200	1
5	SRMK2AP05 ↗	200	1
6	SRMK2AP06 ↗	200	1
7	SRMK2AP07 ↗	200	1
8	SRMK2AP08 ↗	200	1
9	SRMK2AP09 ↗	200	1
10	SRMK2AP10 ↗	200	1

CERTIFICATES

INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR

CERTIFICATE OF COMPLETION

This is to certify that

SHAURYA SRINET

has successfully completed short term online course on

Basics of Python Programming

conducted by ENDURO SRM in association with faculties of IIT Kharagpur

during **ENDURO** Nov'21

PT11165

Mayank Bhasin
Course Facilitator
PhD, IIT Kharagpur,

Dr. Pawan Goyal
Course Co-ordinator
CSE Dept, IIT Kharagpur

ENDUROSRM

COGNITIVE CLASS.ai

This is to certify that

Shaurya Srinet

successfully completed and received a passing grade in

Data Science 101
(DS0101EN, provided by IBM)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.
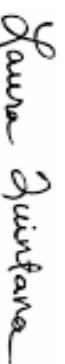
Issued by
Cognitive Class

May 25, 2022

Authenticity of this certificate can be validated by going to:
https://courses.cognitiveclass.ai/certificates/d7f268ecd3a24c5382c7ff855cc45937

Corporate
Social
Responsibility

Cisco Networking Academy

Introduction to IoT

For completing the Cisco Networking Academy® Introduction to IoT course, and demonstrating the ability to perform the following:

- Explain how IoT and Digital Transformation are positively impacting businesses and governments.
- Explain the importance of software and data for digital businesses and society.

- Explain the benefits of automation and artificial intelligence for digital transformation.
- Explain the concepts of Intent Based Networking.
- Explain the need for enhanced security in the digitized world.

Shaurya Srinet

Student

3 Feb 2022

Date

Laura Quintana

Laura Quintana
VP & General Manager, Cisco Networking Academy

internship studio

CERTIFICATE OF TRAINING

THIS CERTIFICATE IS PRESENTED TO

Shaurya Srinet

FOR THE COMPLETION OF 4 WEEKS TRAINING ON INTERNET OF THINGS AT INTERNSHIP STUDIO.

WE WISH YOU ALL THE BEST FOR YOUR FUTURE ENDEAVOURS.

ISSUE DATE: 04/02/2022

AMAN MALHOTRA
Internship Mentor

ANIKET BIHANI
Founder & CEO

CERTIFICATE NUMBER: ISIOTT8246

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WE WISH YOU ALL THE BEST FOR YOUR FUTURE ENDEAVOURS.

ISSUE DATE: 04/02/2022

AMAN MALHOTRA
Internship Mentor

ANIKET BIHANI
Founder & CEO

CERTIFICATE NUMBER: ISIOTT8246

Certificate
OF EXCELLENCE

THIS CERTIFICATE IS PROUDLY PRESENTED TO:

Shaurya Srinet

For his/her successful completion of WEB PRO, a 30 day intense industrial training bootcamp on Software Development conducted from 25th October '21 to 23rd November '21. He / She has completed all the tasks assigned in the workshop and had an exceptional performance during the workshop

Tech Analogy is a certified MSME registered micro enterprise under the Udyam Registration Portal

Ministry of MSME with the reference ID of UDYAM GJ-01-0067829

Anirudha Chatterjee
Co - Software Development Head
Tech Analogy

Samriddho Das
Founder of Nyro Media

Sagnik Biswas
Software Development Head
Tech Analogy

TECHANALOGY
nspiration | ideation | Innovation

PANTECH SOLUTIONS
Technology Beyond the Dreams

CERTIFICATE
OF PARTICIPATION

NAME : Shaurya Srinet

COLLEGE : SRMIST, CHENNAI

has Successfully Completed

MASTER CLASS ON EMBEDDED SYSTEM &IOT USING ESP32(5 DAYS)

at Pantech Prolabs India Pvt Ltd

From : NOV 29,2021 to : DEC 3 ,2021

M.K.JEEVARAJAN
DIRECTOR
PANTECHSOLUTIONS
www.pantechsolutions.net