



STELLA MARY'S COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai and Accredited by NAAC & NBA (Mech & CSE)
Aruthenganvilai, Kallukatti Junction, Azhikal Post, Kanyakumari District - 629 202
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Number of courses that include experiential learning through
project work/field work/internship during the year
2023-2024

SL.NO	Course code	Name of the Course that include experiential learning through project work/field work/internship
1	CS3491	Artificial Intelligence and Machine Learning
2	CS3352	Foundations of Data Science
3	CS3691	Embedded Systems and IoT
4	CCS335	Cloud Computing
5	CS8081	Internet of Things

Dr. F.R. S. [Signature]
Head of Department
Department of Computer Science and Engineering
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CS3491 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

L T P C
3 0 2 4

COURSE OBJECTIVES:

The main objectives of this course are to:

- Study about uninformed and Heuristic search techniques.
- Learn techniques for reasoning under uncertainty
- Introduce Machine Learning and supervised learning algorithms
- Study about ensembling and unsupervised learning algorithms
- Learn the basics of deep learning using neural networks

UNIT I PROBLEM SOLVING 9

Introduction to AI - AI Applications - Problem solving agents - search algorithms - uninformed search strategies - Heuristic search strategies - Local search and optimization problems - adversarial search - constraint satisfaction problems (CSP)

UNIT II PROBABILISTIC REASONING 9

Acting under uncertainty - Bayesian inference - naïve bayes models. Probabilistic reasoning - Bayesian networks - exact inference in BN - approximate inference in BN - causal networks.

UNIT III SUPERVISED LEARNING 9

Introduction to machine learning - Linear Regression Models: Least squares, single & multiple variables, Bayesian linear regression, gradient descent, Linear Classification Models: Discriminant function - Probabilistic discriminative model - Logistic regression, Probabilistic generative model - Naive Bayes, Maximum margin classifier - Support vector machine, Decision Tree, Random forests

UNIT IV ENSEMBLE TECHNIQUES AND UNSUPERVISED LEARNING 9

Combining multiple learners: Model combination schemes, Voting, Ensemble Learning - bagging, boosting, stacking, Unsupervised learning: K-means, Instance Based Learning: KNN, Gaussian mixture models and Expectation maximization

UNIT V NEURAL NETWORKS 9

Perceptron - Multilayer perceptron, activation functions, network training - gradient descent optimization - stochastic gradient descent, error backpropagation, from shallow networks to deep networks - Unit saturation (aka the vanishing gradient problem) - ReLU, hyperparameter tuning, batch normalization, regularization, dropout.

45 PERIODS

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PRACTICAL EXERCISES: 30 PERIODS

1. Implementation of Uninformed search algorithms (BFS, DFS)
2. Implementation of Informed search algorithms (A*, memory-bounded A*)
3. Implement naïve Bayes models
4. Implement Bayesian Networks
5. Build Regression models
6. Build decision trees and random forests
7. Build SVM models
8. Implement ensembling techniques
9. Implement clustering algorithms
10. Implement EM for Bayesian networks
11. Build simple NN models
12. Build deep learning NN models

COURSE OUTCOMES:

At the end of this course, the students will be able to:

- CO1: Use appropriate search algorithms for problem solving
- CO2: Apply reasoning under uncertainty
- CO3: Build supervised learning models
- CO4: Build ensembling and unsupervised models
- CO5: Build deep learning neural network models

TOTAL:75 PERIODS

TEXT BOOKS:

1. Stuart Russell and Peter Norvig, "Artificial Intelligence – A Modern Approach", Fourth Edition, Pearson Education, 2021.
2. Ethem Alpaydin, "Introduction to Machine Learning", MIT Press, Fourth Edition, 2020.

REFERENCES:

1. Dan W. Patterson, "Introduction to Artificial Intelligence and Expert Systems", Pearson Education, 2007
2. Kevin Night, Elaine Rich, and Nair B., "Artificial Intelligence", McGraw Hill, 2008
3. Patrick H. Winston, "Artificial Intelligence", Third Edition, Pearson Education, 2006
4. Deepak Khemani, "Artificial Intelligence", Tata McGraw Hill Education, 2013 (<http://nptel.ac.in/>)
5. Christopher M. Bishop, "Pattern Recognition and Machine Learning", Springer, 2006.
6. Tom Mitchell, "Machine Learning", McGraw Hill, 3rd Edition, 1997.
7. Charu C. Aggarwal, "Data Classification Algorithms and Applications", CRC Press, 2014

Dr. F.R. S. [Signature] M.Tech., Ph.D.,
Professor & Head
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8. Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar, "Foundations of Machine Learning", MIT Press, 2012.

9. Ian Goodfellow, Yoshua Bengio, Aaron Courville, "Deep Learning", MIT Press, 2016

CS3352

FOUNDATIONS OF DATA SCIENCE

L T P C

3 0 0 3

COURSE OBJECTIVES:

- To understand the data science fundamentals and process.
- To learn to describe the data for the data science process.
- To learn to describe the relationship between data.
- To utilize the Python libraries for Data Wrangling.
- To present and interpret data using visualization libraries in Python

UNIT I

INTRODUCTION

9

Data Science: Benefits and uses – facets of data - Data Science Process: Overview – Defining research goals – Retrieving data – Data preparation - Exploratory Data analysis – build the model– presenting findings and building applications - Data Mining - Data Warehousing – Basic Statistical descriptions of Data

UNIT II

DESCRIBING DATA

9

Types of Data - Types of Variables -Describing Data with Tables and Graphs –Describing Data with Averages - Describing Variability - Normal Distributions and Standard (z) Scores

UNIT III

DESCRIBING RELATIONSHIPS

9

Correlation –Scatter plots –correlation coefficient for quantitative data –computational formula for correlation coefficient – Regression –regression line –least squares regression line – Standard error of estimate – interpretation of r^2 –multiple regression equations –regression towards the mean

UNIT IV

PYTHON LIBRARIES FOR DATA WRANGLING

9

Basics of Numpy arrays –aggregations –computations on arrays –comparisons, masks, boolean logic – fancy indexing – structured arrays – Data manipulation with Pandas – data indexing and selection – operating on data – missing data – Hierarchical indexing – combining datasets – aggregation and grouping – pivot tables

UNIT V

DATA VISUALIZATION

9

Importing Matplotlib – Line plots – Scatter plots – visualizing errors – density and contour plots – Histograms – legends – colors – subplots – text and annotation – customization – three dimensional plotting - Geographic Data with Basemap - Visualization with Seaborn.

COURSE OUTCOMES:

At the end of this course, the students will be able to:

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Department of Computer Science & Engineering
College of Engineering



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- CO1: Define the data science process
CO2: Understand different types of data description for data science process
CO3: Gain knowledge on relationships between data
CO4: Use the Python Libraries for Data Wrangling
CO5: Apply visualization Libraries in Python to interpret and explore data

TOTAL:45 PERIODS

TEXT BOOKS

1. David Cielen, Arno D. B. Meysman, and Mohamed Ali, "Introducing Data Science", Manning Publications, 2016. (Unit I)
2. Robert S. Witte and John S. Witte, "Statistics", Eleventh Edition, Wiley Publications, 2017. (Units II and III)
3. Jake VanderPlas, "Python Data Science Handbook", O'Reilly, 2016. (Units IV and V)

REFERENCES:

1. Allen B. Downey, "Think Stats: Exploratory Data Analysis in Python", Green Tea Press, 2014.

CS3691

EMBEDDED SYSTEMS AND IOT

L T P C

3 0 2 4

COURSE OBJECTIVES:

- To learn the internal architecture and programming of an embedded processor.
- To introduce interfacing I/O devices to the processor.
- To introduce the evolution of the Internet of Things (IoT).
- To build a small low-cost embedded and IoT system using Arduino/Raspberry Pi/ open platform.
- To apply the concept of Internet of Things in real world scenario.

UNIT I

8-BIT EMBEDDED PROCESSOR

9

8-Bit Microcontroller – Architecture – Instruction Set and Programming – Programming Parallel Ports – Timers and Serial Port – Interrupt Handling.

UNIT II

EMBEDDED C PROGRAMMING

9

Memory And I/O Devices Interfacing – Programming Embedded Systems in C – Need For RTOS – Multiple Tasks and Processes – Context Switching – Priority Based Scheduling Policies.

UNIT III

IOT AND ARDUINO PROGRAMMING

9

Introduction to the Concept of IoT Devices – IoT Devices Versus Computers – IoT Configurations – Basic Components – Introduction to Arduino – Types of Arduino– Arduino

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Toolchain – Arduino Programming Structure – Sketches – Pins – Input/Output From Pins Using Sketches – Introduction to Arduino Shields – Integration of Sensors and Actuators with Arduino.

UNIT IV IOT COMMUNICATION AND OPEN PLATFORMS 9

IoT Communication Models and APIs – IoT Communication Protocols – Bluetooth – WiFi – ZigBee – GPS – GSM modules – Open Platform (like Raspberry Pi) – Architecture – Programming – Interfacing – Accessing GPIO Pins – Sending and Receiving Signals Using GPIO Pins – Connecting to the Cloud.

UNIT V APPLICATIONS DEVELOPMENT 9

Complete Design of Embedded Systems – Development of IoT Applications – Home Automation – Smart Agriculture – Smart Cities – Smart Healthcare.

45 PERIODS

30 PERIODS

PRACTICAL EXERCISES:

1. Write 8051 Assembly Language experiments using simulator.
2. Test data transfer between registers and memory.
3. Perform ALU operations.
4. Write Basic and arithmetic Programs Using Embedded C.
5. Introduction to Arduino platform and programming
6. Explore different communication methods with IoT devices (Zigbee, GSM, Bluetooth)
7. Introduction to Raspberry PI platform and python programming
8. Interfacing sensors with Raspberry PI
9. Communicate between Arduino and Raspberry PI using any wireless medium
10. Setup a cloud platform to log the data
11. Log Data using Raspberry PI and upload to the cloud platform
12. Design an IOT based system

COURSE OUTCOMES:

CO1: Explain the architecture of embedded processors.

CO2: Write embedded C programs.

CO3: Design simple embedded applications.

CO4: Compare the communication models in IOT

CO5: Design IoT applications using Arduino/Raspberry Pi /open platform.

TOTAL :75 PERIODS

TEXTBOOKS

1. Muhammed Ali Mazidi, Janice Gillispie Mazidi, Rolin D. McKinlay, "The 8051 Microcontroller and Embedded Systems", Pearson Education, Second Edition, 2014

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2. Robert Barton, Patrick Grossetete, David Hanes, Jerome Henry, Gonzalo Salgueiro, "IoT Fundamentals: Networking Technologies, Protocols, and Use Cases for the Internet of Things", CISCO Press, 2017.

REFERENCES

1. Michael J. Pont, "Embedded C", Pearson Education, 2007.
2. Wayne Wolf, "Computers as Components: Principles of Embedded Computer System Design", Elsevier, 2006.
3. Andrew N Sloss, D. Symes, C. Wright, "Arm System Developer's Guide", Morgan Kauffman/Elsevier, 2006.
4. Arshdeep Bahga, Vijay Madisetti, "Internet of Things – A hands-on approach", Universities Press, 2015

CCS335

CLOUD COMPUTING

L T P C

2 0 2 3

COURSE OBJECTIVES:

- To understand the principles of cloud architecture, models and infrastructure.
- To understand the concepts of virtualization and virtual machines.
- To gain knowledge about virtualization Infrastructure.
- To explore and experiment with various Cloud deployment environments.
- To learn about the security issues in the cloud environment.

UNIT I CLOUD ARCHITECTURE MODELS AND INFRASTRUCTURE 6

Cloud Architecture: System Models for Distributed and Cloud Computing – NIST Cloud Computing Reference Architecture – Cloud deployment models – Cloud service models; Cloud Infrastructure: Architectural Design of Compute and Storage Clouds – Design Challenges

UNIT II VIRTUALIZATION BASICS 6

Virtual Machine Basics – Taxonomy of Virtual Machines – Hypervisor – Key Concepts – Virtualization structure – Implementation levels of virtualization – Virtualization Types: Full Virtualization – Para Virtualization – Hardware Virtualization – Virtualization of CPU, Memory and I/O devices.

UNIT III VIRTUALIZATION INFRASTRUCTURE AND DOCKER 7

Desktop Virtualization – Network Virtualization – Storage Virtualization – System-level of Operating Virtualization – Application Virtualization – Virtual clusters and Resource Management – Containers vs. Virtual Machines – Introduction to Docker – Docker Components – Docker Container – Docker Images and Repositories.

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UNIT IV CLOUD DEPLOYMENT ENVIRONMENT 6
Google App Engine – Amazon AWS – Microsoft Azure; Cloud Software Environments – Eucalyptus – OpenStack.

UNIT V CLOUD SECURITY 5
Virtualization System-Specific Attacks: Guest hopping – VM migration attack – hyperjacking. Data Security and Storage; Identity and Access Management (IAM) - IAM Challenges - IAM Architecture and Practice.

30 PERIODS

PRACTICAL EXERCISES:

30 PERIODS

1. Install Virtualbox/VMware/ Equivalent open source cloud Workstation with different flavours of Linux or Windows OS on top of windows 8 and above.
2. Install a C compiler in the virtual machine created using a virtual box and execute Simple Programs
3. Install Google App Engine. Create a hello world app and other simple web applications using python/java.
4. Use the GAE launcher to launch the web applications.
5. Simulate a cloud scenario using CloudSim and run a scheduling algorithm that is not present in CloudSim.
6. Find a procedure to transfer the files from one virtual machine to another virtual machine.
7. Install Hadoop single node cluster and run simple applications like wordcount.
8. Creating and Executing Your First Container Using Docker.
9. Run a Container from Docker Hub

COURSE OUTCOMES:

- CO1: Understand the design challenges in the cloud.
CO2: Apply the concept of virtualization and its types.
CO3: Experiment with virtualization of hardware resources and Docker.
CO4: Develop and deploy services on the cloud and set up a cloud environment.
CO5: Explain security challenges in the cloud environment.

TOTAL:60 PERIODS

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TEXT BOOKS

1. Kai Hwang, Geoffrey C Fox, Jack G Dongarra, "Distributed and Cloud Computing, From Parallel Processing to the Internet of Things", Morgan Kaufmann Publishers, 2012.
2. James Turnbull, "The Docker Book", O'Reilly Publishers, 2014.
3. Krutz, R. L., Vines, R. D, "Cloud security. A Comprehensive Guide to Secure Cloud Computing", Wiley Publishing, 2010.

REFERENCES

1. James E. Smith, Ravi Nair, "Virtual Machines: Versatile Platforms for Systems and Processes", Elsevier/Morgan Kaufmann, 2005.
2. Tim Mather, Subra Kumaraswamy, and Shahed Latif, "Cloud Security and Privacy: an enterprise perspective on risks and compliance", O'Reilly Media, Inc., 2009.

CS8081

INTERNET OF THINGS

L T P C
3 0 0 3

OBJECTIVES:

- To understand Smart Objects and IoT Architectures
- To learn about various IOT-related protocols
- To build simple IoT Systems using Arduino and Raspberry Pi.
- To understand data analytics and cloud in the context of IoT
- To develop IoT infrastructure for popular applications

UNIT I

FUNDAMENTALS OF IoT

9

Evolution of Internet of Things - Enabling Technologies – IoT Architectures: oneM2M, IoT World Forum (IoTWF) and Alternative IoT models – Simplified IoT Architecture and Core IoT Functional Stack – Fog, Edge and Cloud in IoT – Functional blocks of an IoT ecosystem – Sensors, Actuators, Smart Objects and Connecting Smart Objects

UNIT II

IoT PROTOCOLS

9

IoT Access Technologies: Physical and MAC layers, topology and Security of IEEE 802.15.4, 802.15.4g, 802.15.4e, 1901.2a, 802.11ah and LoRaWAN – Network Layer: IP versions, Constrained Nodes and Constrained Networks – Optimizing IP for IoT: From 6LoWPAN to 6Lo, Routing over Low Power and Lossy Networks – Application Transport Methods: Supervisory Control and Data Acquisition – Application Layer Protocols: CoAP and MQTT

UNIT III

DESIGN AND DEVELOPMENT

9

Design Methodology - Embedded computing logic - Microcontroller, System on Chips - IoT system building blocks - Arduino - Board details, IDE programming - Raspberry Pi - Interfaces and Raspberry Pi with Python Programming.

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UNIT IV	DATA ANALYTICS AND SUPPORTING SERVICES	9
Structured Vs Unstructured Data and Data in Motion Vs Data in Rest – Role of Machine Learning – No SQL Databases – Hadoop Ecosystem – Apache Kafka, Apache Spark – Edge Streaming Analytics and Network Analytics – Xively Cloud for IoT, Python Web Application Framework – Django – AWS for IoT – System Management with NETCONF-YANG		
UNIT V	CASE STUDIES/INDUSTRIAL APPLICATIONS	9
Cisco IoT system - IBM Watson IoT platform – Manufacturing - Converged Plantwide Ethernet Model (CPwE) – Power Utility Industry – GridBlocks Reference Model - Smart and Connected Cities: Layered architecture, Smart Lighting, Smart Parking Architecture and Smart Traffic Control		

TOTAL : 45 PERIODS

OUTCOMES:

Upon completion of the course, the student should be able to:

CO1: Explain the concept of IoT.

CO2: Analyze various protocols for IoT.

CO3: Design a PoC of an IoT system using Raspberry Pi/Arduino

CO4: Apply data analytics and use cloud offerings related to IoT.

CO5: Analyze applications of IoT in real time scenario

TEXTBOOK:

1. David Hanes, Gonzalo Salgueiro, Patrick Grossetete, Rob Barton and Jerome Henry, "IoT Fundamentals: Networking Technologies, Protocols and Use Cases for Internet of Things, Cisco Press, 2017

REFERENCES:

1. Arshdeep Bahga, Vijay Madisetti, "Internet of Things – A hands-on approach", Universities Press, 2015
2. Olivier Hersent, David Boswarthick, Omar Elloumi , "The Internet of Things – Key applications and Protocols", Wiley, 2012 (for Unit 2).
3. Jan Holler, Vlasios Tsiatsis , Catherine Mulligan, Stamatis , Karnouskos, Stefan Avesand. David Boyle, "From Machine-to-Machine to the Internet of Things - Introduction to a New Age of Intelligence", Elsevier, 2014.
4. Dieter Uckelmann, Mark Harrison, Michahelles, Florian (Eds), "Architecting the Internet of Things", Springer, 2011.

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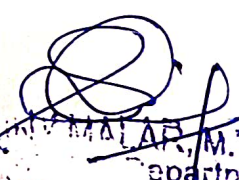
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5. Michael Margolis, Arduino Cookbook, Recipes to Begin, Expand, and Enhance Your Projects,
2nd Edition, O'Reilly Media, 2011.

<https://www.arduino.cc/>

https://www.ibm.com/smarterplanet/us/en/?ca=v_smarterplanet


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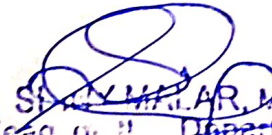
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1. CS3491/Artificial Intelligence and Machine Learning 2. CS3352/Foundations of Data Science	Mitz & Fritz Private Lmt Sanjai M I Oracuz Infotech Private Lmt Nelson Solomon Fernandes Aswini P Durshika K J Minisha Ashika M Adlin Abi R S
3. CS3691/Embedded Systems and IoT 4. CCS335/ Cloud Computing	A K Infopark Albert G Feathers softwares Uvashree U V Aslin R Srishti Innovative Computer Systems, Technopark Joel Johnson Clovion Tech Solution Private Lmt Aslin R Andrea C Subitha S K Adhil Ahamed J Karthika Devi M Karuppasamy K Thanya S Kingshiya K S Nathim Khan Srishti Innovative Computer Systems, Technopark R Asmika Akasni Brutshiba
5. CS2021/ Internet of Things	Rexknar Creative Solutions Mohamed Shahid S Ajai Kumar R


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MITZ & FRITZ PRIVATE LIMITED

Date: Nov 15 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Sanjai M. I has successfully completed a 3-month internship at Mitz & Fritz Private Limited. The internship commenced on July 24, 2023 and concluded on Oct 31, 2023. During this period, Sanjai M. I served as Junior developer at Mitz & Fritz Private Limited. On behalf of Mitz & Fritz Private Limited, we extend our congratulations to Mr. Sanjai M. I for the successful completion of the internship program. We commend your dedication, hard work, and enthusiasm throughout the internship period.

Authorized Signatory

Nisanth SR
Project Manager
Mitz & Fritz Private Limited



Dear Nelson,

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a confirmation to **Ms. Nelson Solomon Fernandes** from Stella Mary's College of Engineering for **Designing** Internship with in our organization. This position is scheduled to begin **07-02-24 to 14-04-24** and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.



For Oracuz Infotech Pvt Ltd

HR Department



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+91 808 610 4845

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Angel
Hos

Dear Aswini,

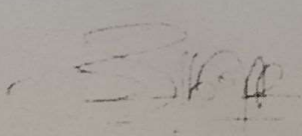
Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a con
to **Ms. Aswini.P** from Stella Mary's College of Engineering for **Python Django I**
with in our organization. This position is scheduled to begin from **07-02-24 to 1**
and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.




For Oracuz Infotech Pvt Ltd

HR Department



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Angelln
Hospital,

Dear Durshika,

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a confirmation to **Ms. Durshika K.J** from Stella Mary's College of Engineering for **Python** Internship with in our organization. This position is scheduled to begin from **07-04-24 to 14-04-24** and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.



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And
Ho-

Dear Minisha,

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a con
to **Ms. Minisha** from Stella Mary's College of Engineering for **Python Django**
with in our organization. This position is scheduled to begin from **07-02-24** to
and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.



A handwritten signature in black ink, appearing to be 'S. K. P.'.

For Oracuz Infotech Pvt Ltd

HR Department

A handwritten signature in green ink, appearing to be 'S. K. P.'.



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www.oracuz.com

Hosp

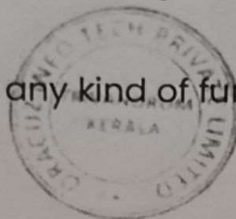
Dear Ashika,

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a con
to **Ms. Ashika M** from Stella Mary's College of Engineering for **Python Django**
with in our organization. This position is scheduled to begin from **07-02-24 to**
and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.



For Oracuz Infotech Pvt Ltd

HR Department

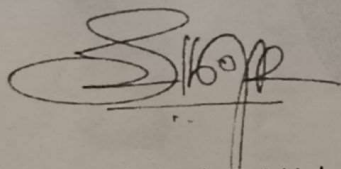
Dear Adlin,

Hope you are going well.

On behalf of Oracuz Infotech Private Limited, we are excited to extend a confirmation to **Ms. Adlin Abi R.S** from Stella Mary's College of Engineering for **UI/UX Design** Internship with in our organization. This position is scheduled to begin from **07-04-24 to 14-04-24** and will be 3 months internship opportunity.

We would like to inform you that your registration process is completed.

Please let we know if you need any kind of further information.

A handwritten signature in black ink, appearing to be "S. R. S.", with a horizontal line underneath.

For Oracuz Infotech Pvt Ltd

HR Department



AK INFOPARK

BE DIGITAL !

GO DIGITAL !

Certificate of Internship

••• THIS CERTIFICATE IS PROUDLY PRESENTED TO •••

ALBERT G

Has successfully completed the internship program at AK Infopark from 29 FEB 2024
to 28 MAR 2024 in the field of UI/UX DESIGN



28 MAR 2024

[Signature]



Internship Letter

Date: 27.02.2024

Name: Uvashree UV

College Name: Stella Mary's College of Engineering

Dear Uvashree,

Sub: Internship Confirmation for Uvashree UV

We are elated to offer you an internship opportunity at Feather Softwares. This internship opportunity for you to gain valuable experience and contribute to our dynamic team.

Kindly review the key details of your internship:

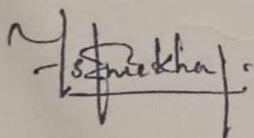
- **Internship Details:** Front End Development
- **Location:** Nagercoil
- **Duration:** 1 – 3 months
- **Start Date :** March 04 , 2024

During your internship, you will be working closely with our **Front End Development** team. We will provide hands-on experience in **Front End Development** and the chance to demonstrate your skills and dedication.

We are excited about the potential you bring and the bright future ahead. We hope this internship is a stepping stone towards a rewarding career.

Kindly sign the internship letter as a token of acknowledgment and email us a softcopy at hr@feathersoftwares.com

Kind regards,



HR

Feather Softwares

Internship Letter

Date: 27.02.2024

Name: Aslin R

College Name: Stella Mary's College of Engineering

Dear Aslin R,

Sub: Internship Confirmation for Aslin R

We are elated to offer you an internship opportunity at Feather Softwares. This internship opportunity for you to gain valuable experience and contribute to our dynamic team.

Kindly review the key details of your internship:

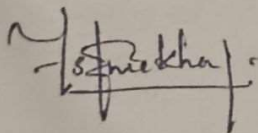
- **Internship Details:** MERN Developer
- **Location:** Nagercoil
- **Duration:** 1 – 3 months
- **Start Date :** March 04 , 2024

During your internship, you will be working closely with our **MERN Stack Development** role will provide hands-on experience in **MERN Stack Development** and the chance to grow your skills and dedication.

We are excited about the potential you bring and the bright future ahead. We hope this is a stepping stone towards a rewarding career.

Kindly sign the internship letter as a token of acknowledgment and email us a softcopy.

Kind regards,



HR

Feather Softwares



Srishti Innovative Educational Services Pvt. Ltd.

REG. NO.: U80300KL2016PTC047381, GST: 32AAXCS9370D

TC 100/3824-3, Perks Perumpada, Opp. Technopark Main Gate

Kazhakkuttam, Trivandrum-695582

22nd November 2023

Joel Johnson

Princy cottage, Aithottuva,
West Kallada (P.O) Kollam,
Kerala 691500

Subject: Appointment as a '**Mern Stack Trainee Programmer**'

Dear **Joel Johnson**,

Greetings from Srishti Innovative!!

Congratulations, Mr./Ms. **Joel Johnson**, from, Princy cottage, Aithottuva, West Kallada, Kollam, Kerala 691500. Who have pursuing their Bachelor of Engineering in Computer Science and Engineering from **Anna University** have been selected for the post of '**Stack Trainee Programmer**' with reference to your application.

Srishti Innovative Computer Systems is pleased to offer you an Internship in Python and JavaScript for a period of 6 months (i.e., from 07th February 2024 to 07th August 2024). Your internship becomes effective on 07/02/2024. Your work location will be Srishti Innovative Computer Systems, 1st floor, Leela Info Park, Technopark campus, Trivandrum.

As an intern, you will be required to abide by the rules and regulations of Srishti Innovative and any non-observance to the rules, policies or procedures is subject to strict disciplinary actions. After the technical induction period of 60 days and during the following 60 days you will not be eligible for a stipend/ Incentive. Srishti Innovative does not have any financial commitment towards this.

If you agree with the above conditions, please indicate your acceptance by signing the copy of this letter and return it to the office. The original of this letter is attached for our records.

For **Monisha**

Manager



Joel Johnson

Princy cottage, Aithottuva



Srishti Innovative Educational Services Pvt. Ltd.

REG. NO.: U80300KL2016PTC047381, GST: 32AAXCS9370D1ZX

TC 100/3824-3, Perks Perumpada, Opp. Technopark Main Gate,
Kazhakkuttam, Trivandrum-695582

Following terms and conditions will be applicable:

1. Your appointment will be on probationary basis.
2. The internship period is Four months from the date of joining. The duration is from 07 February 2024 to 07th August 2024.
3. During this period you will be provided with training and based on the evaluation you will be shifted to corresponding departments according to the discretions of the score you have gained while your evaluation.
4. During the technical induction period of 60 days you will not be eligible for any salary or stipend. If your training period is extended from 60 days, based on your performance, then that period will be compensated from your work period in the second half of the internship period.
5. Your job is transferable, and you can be posted to any branch office within the state.
6. After the successful completion of the internship period your service will be confirmed at the discretions of the management.
7. The present service rules of the Srishti Innovative Pvt. Ltd. will be applicable to the appointment.
8. The authority of Srishti Innovative Pvt. Ltd. Holds the right to discharge you without showing any cause.
9. Documents to be presented are: -
 1. Print out of your resume.
 2. Original Certificates (+2 / degree)
 3. 2 passport size photographs.
10. Your appointment will be effective from the date of joining.
11. Dress code should be strictly followed.

All employees are expected to be formally dressed during office hours. The following dress code is prescribed for all the employees working in Srishti Innovative. Penalty for non-compliance shall be Rs. 150. If an employee is found non-compliant with the dress code, the penalty shall be imposed on the employee.



Srishti Innovative Educational Services Pvt. Ltd.

REG. NO.: U80300KL2016PTC047381, GST: 32AAXCS9370D1ZX
TC 100/3824-3, Perks Perumpada, Opp. Technopark Main Gate,
Kazhakkuttam, Trivandrum-695582

Men: Formal Trousers, Full/ Half shirts tucked in (Light colors preferred, please avoid shirts with large prints), leather shoes (casual shoes, sports shoes, sneakers, sandals, are strictly not allowed) (Monday through Thursday)

Friday & Saturday: Business Casuals, (Jeans, T-shirt)

Women: Salwar Kameez, Sarees, Formal trouser and Shirts or Kurtis (knee length) (No Deep cut tops, high cut churidar /kurta slit, leggings with short tops and it is compulsory to wear dupatta/ stole with tight tops.

Friday & Saturday: Business Casuals, Jeans, T-shirt, casual tops.

12. Leaves should be informed prior to the reporting authority.

13. Taking leaves without any prior information will lead to immediate termination of the candidate without any prior information.

14. Trainees will be provided with company email id and Skype id, which should be kept as confidential.

15. Trainees are requested not to change the password of company email as well as the company Skype id.

16. Trainees should attend the meetings scheduled without any fail.

17. Performance analysis will be done in various steps during your trainee period, any kind of negligence to attend the evaluation process without any genuine reason will be considered as the irresponsibility of the candidate and the candidate can be terminated from the trainee position.

18. Trainees once selected as Junior Programmers, the terms and conditions with Srishti will be discussed at the time of joining.

19. Trainees are requested to wear their ID cards once they are allotted.

20. Violation of any above-mentioned action will affect the performance of the Trainee.



Srishti Innovative Educational Services Pvt. Ltd.

REG. NO.: U80300KL2016PTC047381, GST: 32AAXCS9370D1ZX

TC 100/3824-3, Perks Perumpada, Opp. Technopark Main Gate,
Kazhakkuttam, Trivandrum-695582

23. Trainees are requested to communicate their concerns, leave requests via email to campusadmin@srishtiinnovative.com.

24. Daily updates of the task done should be sent to campusadmin@srishtiinnovative.com without any fail.



Clovion
Tech Solutions Pvt. Ltd.
WE INSPIRE YOUR IMAGINATION

To,

Date: 25-03-2024

.....Aslin.....R.....

..16/29..B...Pattarivilai, Thalakkulam Post.

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate,

We are pleased to extend this offer of internship to you following your successful participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

Congratulations on being selected to participate in our 15-days free internship program at Clovion Tech Solutions Pvt. Ltd. This internship is designed to provide you with hands-on experience and exposure to various aspects of our organization.

Internship Details:

Duration: 15 days

Department: **WEB...DEVELOPMENT**

Location: Trivandrum/Azhagiyamandapam

During your internship, you will have the opportunity to work closely with our professionals, gaining valuable insights into the industry and enhancing your skills. As a valued member of our team, you will be provided with necessary resources, mentors, and support to ensure a productive and enriching experience.

Please confirm your acceptance of this offer by 29-03-2024. Should you have any queries or require further information, please do not hesitate to contact +91 8300251244.

Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours sincerely,

Director

Clovion Tech Solutions Pvt. Ltd.

25/3/24



Clovion
Tech Solutions Pvt. Ltd.
WE INNOVATE YOUR TIME

Date: 25-03-2024

To,

.....Andrea.....C.....

12/160-3, NEAR NANCHIL SAWMIL,
COLDCHAL ROAD, ASARIPALLAM, K.K. DISTRICT - 629201

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate,

We are pleased to extend this offer of internship to you following your participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

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Department: ~~WEB.....DEVELOPMENT~~

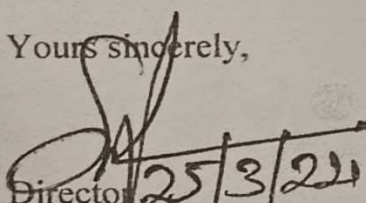
Location: Trivandrum/Azhagiya Mandapam

During your internship, you will have the opportunity to work closely with our professionals, gaining valuable insights into the industry and enhancing your skills. As a valued member of our team, you will be provided with necessary resources, mentorship, and support to ensure a productive and enriching experience.

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Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours sincerely,


Director 25/3/24



Clovion
Tech Solutions Pvt. Ltd.
WE INNOVATE YOUR THOUGHTS

Date: 25-03-2024

To,

.....Subitha.....SK.....

.D.O.R. SELVA.Raj.....9-156, cheramangalam (pottai),
Manava

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate,

We are pleased to extend this offer of internship to you following your successful participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

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Duration: 15 days

Department: ~~WEB~~ DEVELOPMENT

Location: Trivandrum/Azhagiyamandapam

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Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours sincerely,

Director

Clovion Tech Solutions Pvt. Ltd.



Clovion
Tech Solutions Pvt. Ltd.
WE INNOVATE YOUR THOUGHTS

To,

Date: 25-03-2024

.....Adil Abamed.T
.....2/250/3, Pannatti Vilai, Colachel

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate,

We are pleased to extend this offer of internship to you following your successful participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

Congratulations on being selected to participate in our 15-days free internship program with Clovion Tech Solutions Pvt. Ltd. This internship is designed to provide you with hands-on experience and exposure to various aspects of our organization.

Internship Details:

Duration: 15 days

Department: WEB DEVELOPMENT

Location: Trivandrum/Azhagiyamandapam

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Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours sincerely,

Director

25/3/24
Clovion Tech Solutions Pvt. Ltd.



Clovion
Tech Solutions Pvt. Ltd.
WE INNOVATE YOUR THOUGHTS

To,

Date: 25-03-2024

Karthika Devi M
3/49, Thekkanthiruvilai,
629 810

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate,

We are pleased to extend this offer of internship to you following your successful participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

Congratulations on being selected to participate in our 15-days free internship program at Clovion Tech Solutions Pvt. Ltd. This internship is designed to provide you with hands-on experience and exposure to various aspects of our organization.

Internship Details:

Duration: 15 days

Department: ~~WEB~~.....~~DEVELOPMENT~~

Location: Trivandrum/Azhagiyamandapam

During your internship, you will have the opportunity to work closely with our team of professionals, gaining valuable insights into the industry and enhancing your skills. As a valued member of our team, you will be provided with necessary resources, mentorship, and support to ensure a productive and enriching experience.

Please confirm your acceptance of this offer by 29-03-2024. Should you have any queries or require further information, please do not hesitate to contact +91 8300251244.

Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours sincerely,

Director

25/3/24
Clovion Tech Solutions Pvt. Ltd.



To,

Date: 25-03-2024

.....KARUPPASAMY...K..

3/157, pillaiyar...kovi street, subramaniyapuram, maraneri (Pb),
Sivakasi, Vindhuragar, 626-124.

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate,

We are pleased to extend this offer of internship to you following your successful participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

Congratulations on being selected to participate in our 15-days free internship program. Clovion Tech Solutions Pvt. Ltd. This internship is designed to provide you with hands-on experience and exposure to various aspects of our organization.

Internship Details:

Duration: 15 days

Department: ...WEB...DEVELOPMENT

Location: Trivandrum/Azhagiyamandapam

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Please confirm your acceptance of this offer by 29-03-2024. Should you have any queries or require further information, please do not hesitate to contact +91 8300251244.

Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours sincerely,

Director

Clovion Tech Solutions Pvt. Ltd.



Clovio
Tech Solutions Pvt. Ltd.
WE INNOVATE YOUR THOUGHTS

To,

Date: 25-03-2024

.....Thanya.....S.....

.....9/58.B., Tharavillai, Pazhavillai Post - 6295.....

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate,

We are pleased to extend this offer of internship to you following your successful participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

Congratulations on being selected to participate in our 15-days free internship program at Clovion Tech Solutions Pvt. Ltd. This internship is designed to provide you with hands-on experience and exposure to various aspects of our organization.

Internship Details:

Duration: 15 days

Department: ~~WEB~~ DEVELOPMENT

Location: Trivandrum/Azhagiyamandapam

During your internship, you will have the opportunity to work closely with our top professionals, gaining valuable insights into the industry and enhancing your skills. As a valued member of our team, you will be provided with necessary resources, mentorship, and support to ensure a productive and enriching experience.

Please confirm your acceptance of this offer by 29-03-2024. Should you have any queries or require further information, please do not hesitate to contact +91 8300251244.

Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours sincerely,

Director

25/3/24

Clovion Tech Solutions Pvt. Ltd.



To,

Date: 25-03-2024

.....Kingshiya..K.S.....

.....J.S.O.C., PARAMBATUNILLAI,
THIRUVARAMBU POST, K.K. DIST.

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate,

We are pleased to extend this offer of internship to you following your successful participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

Congratulations on being selected to participate in our 15-days free internship program at Clovion Tech Solutions Pvt. Ltd. This internship is designed to provide you with hands-on experience and exposure to various aspects of our organization.

Internship Details:

Duration: 15 days

Department: WEB...DEVELOPMENT

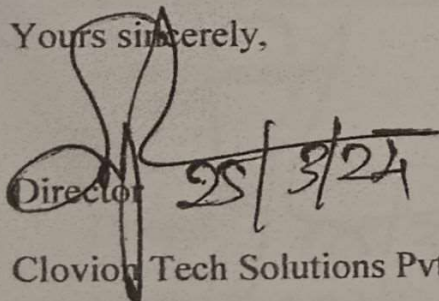
Location: Trivandrum/Azhagiyamandapam

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Please confirm your acceptance of this offer by 29-03-2024. Should you have any queries or require further information, please do not hesitate to contact +91 8300251244.

Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours sincerely,


Director 25/3/24

Clovion Tech Solutions Pvt. Ltd.



Clovion
Tech Solutions Pvt. Ltd.
WE INNOVATE YOUR THOUGHTS

Date: 25-03-

To,

.....Nathim.....khan.....

...H.No: 29/T6-D..Kamaraaj Street, Colachel.

Subject: Offer of Internship with Clovion Tech Solutions Pvt. Ltd.

Dear Candidate,

We are pleased to extend this offer of internship to you following your participation in the Skill Hunt - 2024 recruitment event conducted on March 25, 2024.

Congratulations on being selected to participate in our 15-days free internship program with Clovion Tech Solutions Pvt. Ltd. This internship is designed to provide you with valuable experience and exposure to various aspects of our organization.

Internship Details:

Duration: 15 days

Department: ~~WEB~~...~~DEVELOPMENT~~

Location: Trivandrum/Azhagiyamandapam

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Once again, congratulations on your selection, and we look forward to welcoming you to Clovion Tech Solutions Pvt. Ltd.

Yours sincerely,

Director

Clovion Tech Solutions Pvt. Ltd.

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr./Ms. R. Asmika

who is undergoing BE in CSE from

STELLA MARY'S COLLEGE OF ENGINEERING,

has attended One Week Internship In Python at

"Srishti Innovative Computer Systems" Technonark, Trivandrum

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr./Ms. Akasni Brutshiba

who is undergoing BE in CSE from

STELLA MARY'S COLLEGE OF ENGINEERING,

has attended One Week Internship In Python at

"Srishti Innovative Computer Systems", Technopark, Trivandrum

from 04/03/2024 to 08/03/2024

CERTIFICATE

OF PARTICIPATION

This is to certify that

Mr./Ms. Akasni Brutshiba

who is undergoing BE in CSE from

STELLA MARY'S COLLEGE OF ENGINEERING,

has attended One Week Internship In Python at

"Srishti Innovative Computer Svstems", Technopark, Trivandrum

CERTIFICATE OF PARTICIPATION

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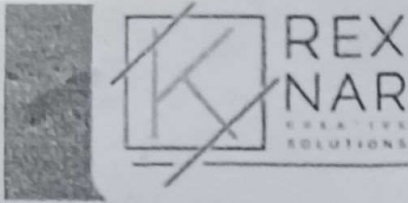
Mr./Ms. R. Asmika

who is undergoing BE in CSE from

STELLA MARY'S COLLEGE OF ENGINEERING,

has attended One Week Internship In Python at

"Srishti Innovative Computer Systems", Technopark, Trivandrum



Date: 08 March 2024

BONAFIDE CERTIFICATE

This is to certify that **Mr. Mohamed Shahid S.** worked as an Intern from **February 2024 - 2024** as **Frontend Designer** at **REXKNAR CREATIVE SOLUTIONS**.

During the period of his internship with us, he was exposed to different processes and found punctual, hardworking, and inquisitive.

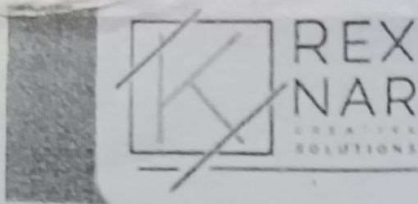
We wish him success in all future endeavors.

Yours Sincerely,



Authorized Signatory

Chief Executive Officer



Date: 08 March 2024

BONAFIDE CERTIFICATE

This is to certify that **Mr. Mohamed Shahid S.** worked as an Intern from **February 2024** as **Frontend Designer** at **REXKNAR CREATIVE SOLUTIONS**.

During the period of his internship with us, he was exposed to different processes and found punctual, hardworking, and inquisitive.

We wish him success in all future endeavors.

Yours Sincerely,



Authorized Signatory

Chief Executive Officer



Date: 08 March 2024

BONAFIDE CERTIFICATE

This is to certify that **Mr. Ajai Kuma R.** worked as an Intern from **February 2024 - March 2024** as a **Frontend Designer** at **REXKNAR CREATIVE SOLUTIONS**.

During the period of his internship with us, he was exposed to different processes and found punctual, hardworking, and inquisitive.

We wish him success in all future endeavors.

Yours Sincerely,

Sobin JM

Authorized Signatory

Chief Executive Officer



Date: 08 March 2024

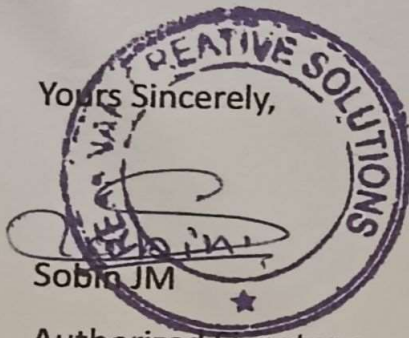
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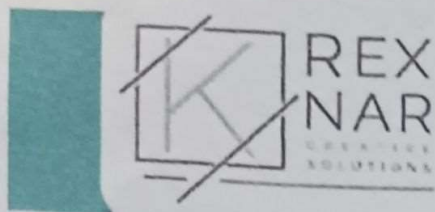
Yours Sincerely,



Sobin JM

Authorized Signatory

Chief Executive Officer



Date: 08 March 2024

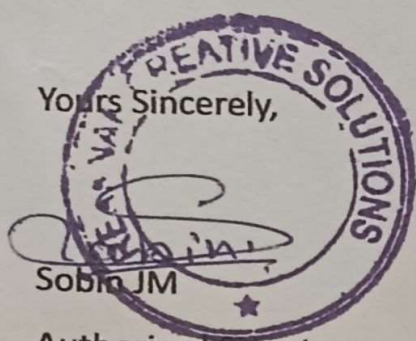
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Yours Sincerely,



Sobin JM

Authorized Signatory

Chief Executive Officer