```
                    WEB BASED
                    LEARNING
                   /          \
          ICT ACADEMY      PANTECH E-
                              LEARNING
         /      |      \
 LEARNATHON  BRAIN O   SKILL-A-THON
             VISION
```

WEB BASED LEARNING

ICT ACADEMY

PANTECH E-LEARNING

LEARNATHON

BRAIN O VISION

SKILL-A-THON

LEARNATHON

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LEARNATHON 2023
ICTACADEMY

CERTIFICATE OF PARTICIPATION

Presented to

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Thiruthangal Nadar College

For successfull participation in Learnathon 2023

Organized by ICT Academy during August 2023 - September 2023

Partners

Microsoft · aws academy · Bentley Institute · celonis · Google for Developers · PRAVARTAK · JUNIPER NETWORKS

MathWorks · MongoDB · Qlik · UiPath Academic Alliance · vmware IT ACADEMY · WADHWANI FOUNDATION

Hari Balachandran
Chief Executive Officer

LEARNATHON 2023
ICTACADEMY

CERTIFICATE OF PARTICIPATION

Presented to

SASIKUMAR.R

Thiruthangal Nadar College

For successfull participation in Learnathon 2023

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Hari Balachandran
Chief Executive Officer

UiPath

Diploma of Completion

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UiPath Studio Web Overview

09/24/2023
Date of issue

Hedley Potts

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UiPath

Diploma of Completion

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VP of Customer Experience
& Enablement

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Ui Path

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Control Flow in Studio

09/24/2023
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Ui Path

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NAAC CYCLE III - AQAR	1.2.2 & 1.2.3 Add-on / Certificates / MoU
1.2 Academic Flexibility	Year: 2023-2024

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Proof of Completion

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Renuka Devi V

For successfully completing

MongoDB CRUD Operations: Insert and Find Documents

On 2023-09-24

Sahir Azam
CPO
MongoDB, Inc

MongoDB.

MDBxa93zsjg6j

Proof of Completion

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MongoDB Data Modeling Intro

On 2023-09-24

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MDBo67yzws8oo

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	1.2 Academic Flexibility	Year: 2023-2024

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Connecting to a MongoDB Database

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MDB6l5jag67zj

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For successfully completing

MongoDB CRUD Operations in Node.js

On 2023-09-24

Sahir Azam
CPO
MongoDB, Inc

MongoDB.

MDB2bbq21111b
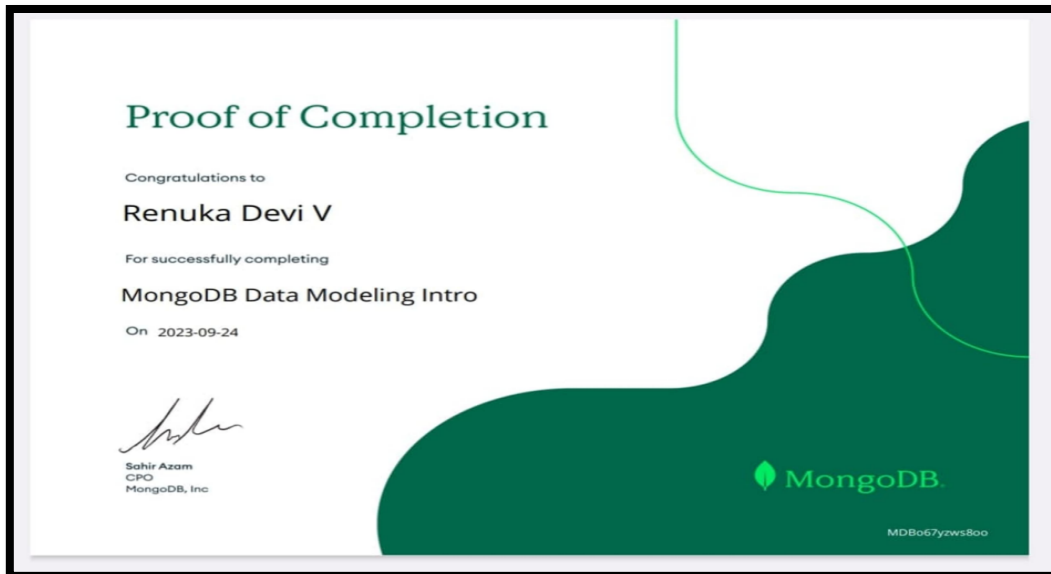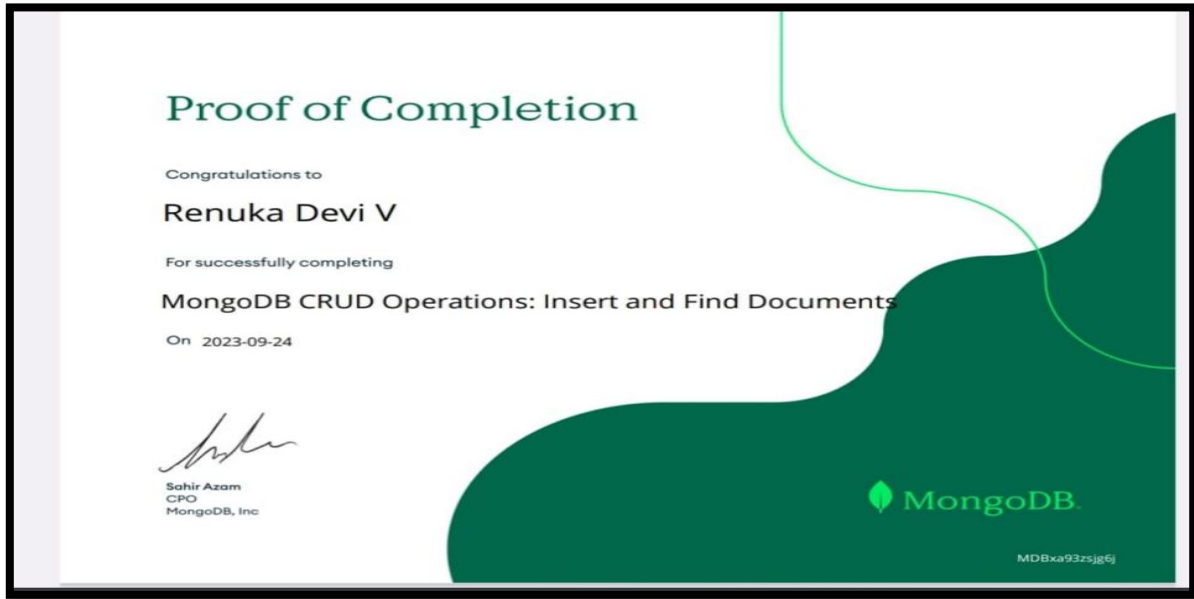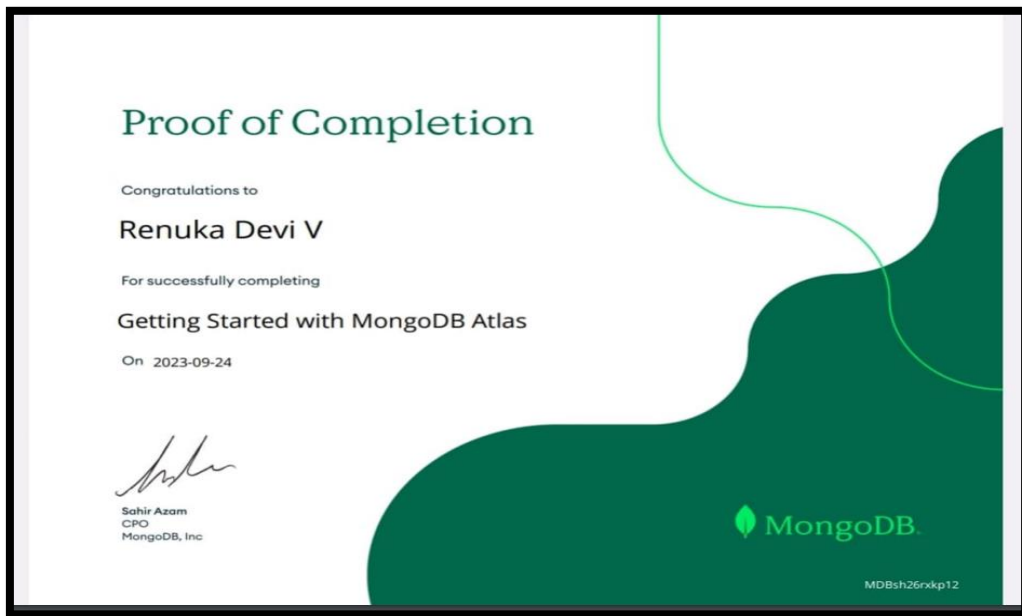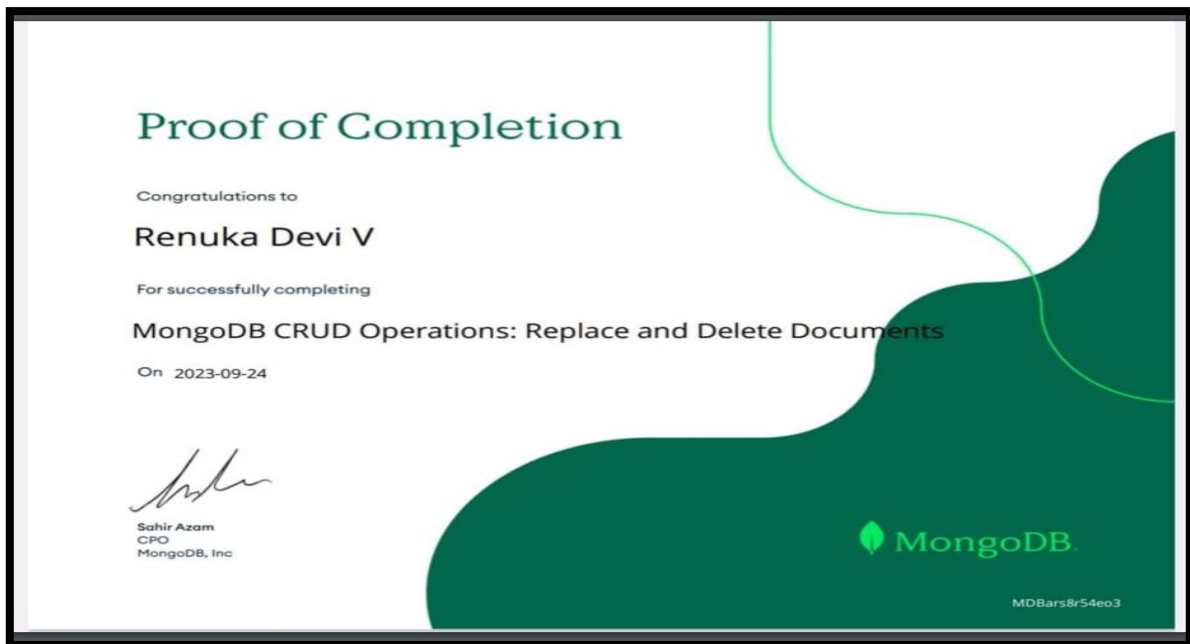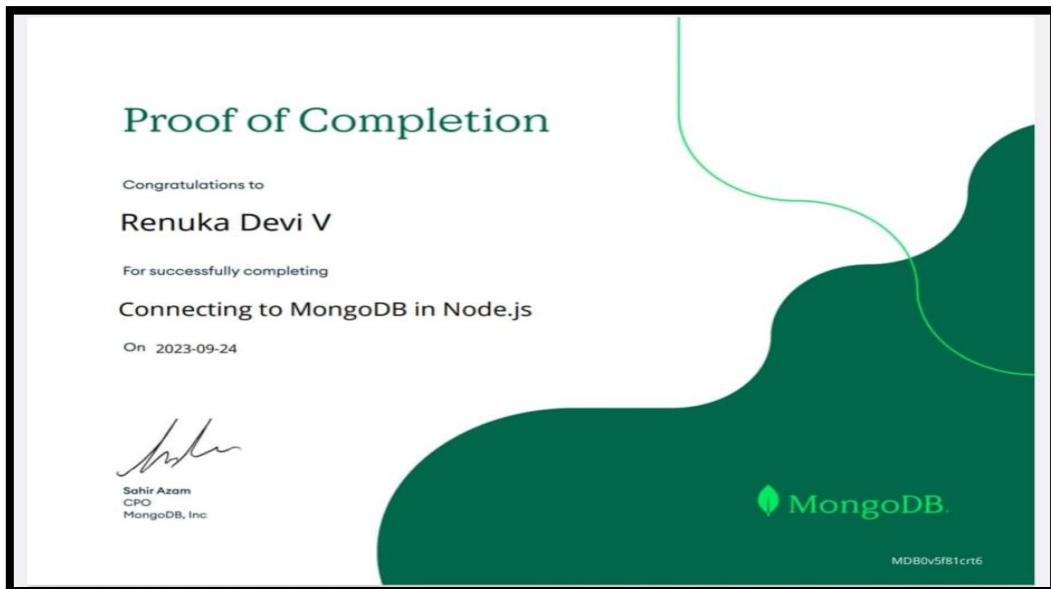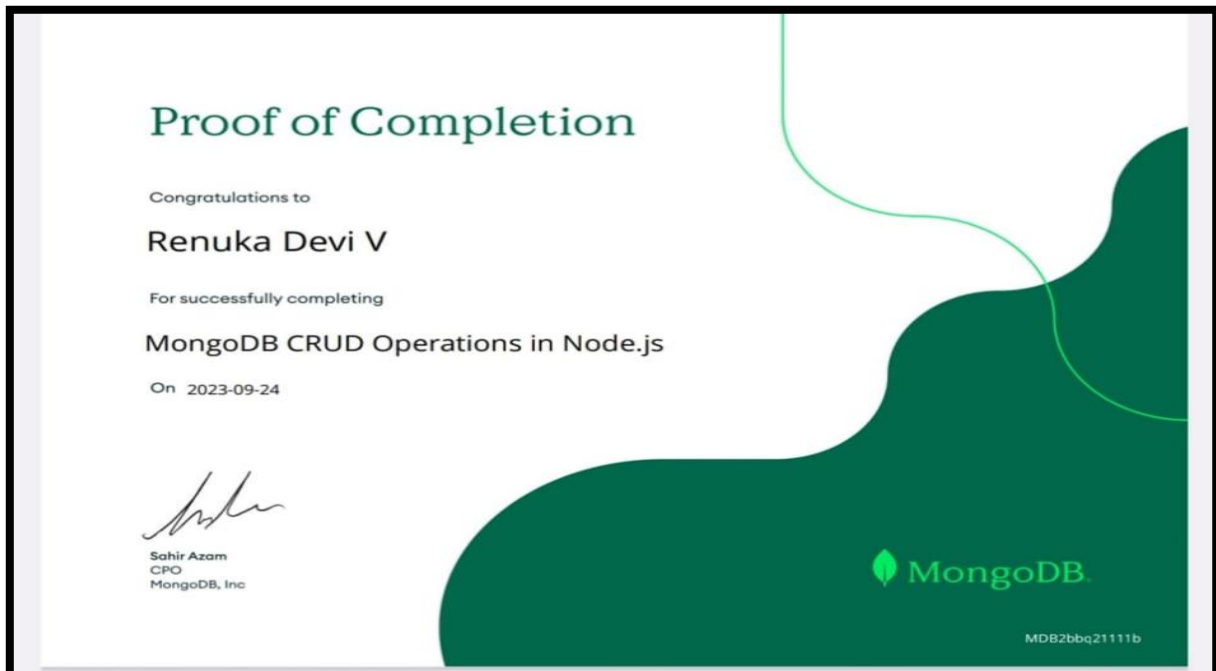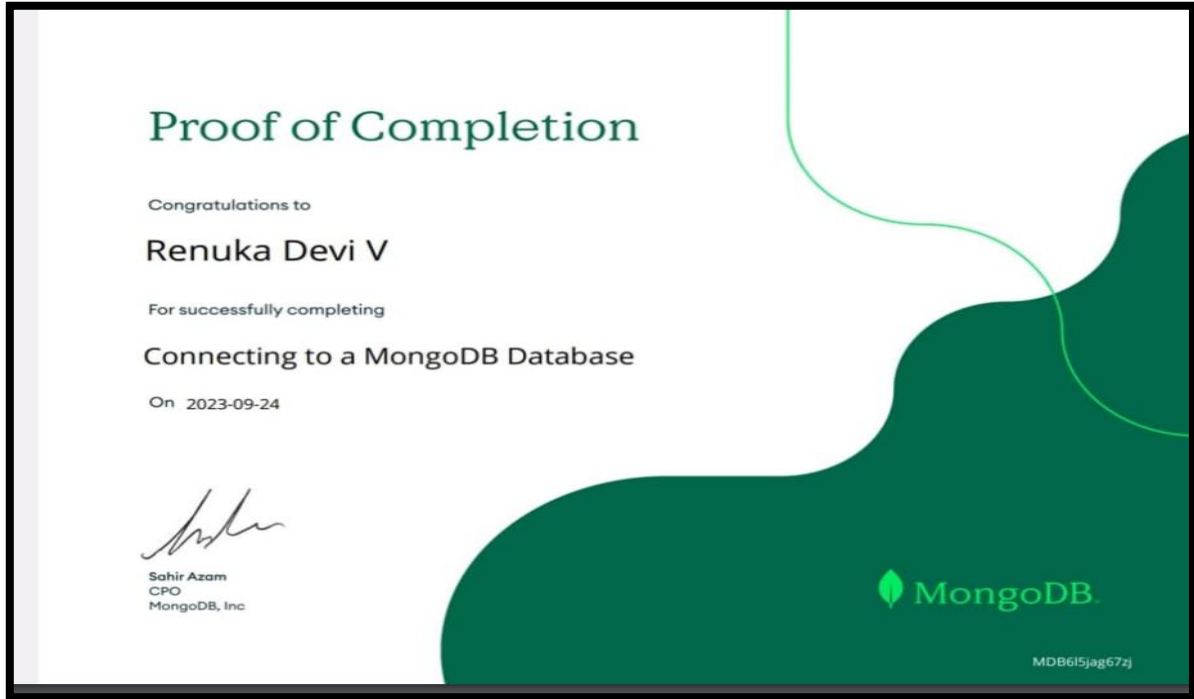
SUMMARY REPORT

ICT Academy is an initiative of the Government of India in collaboration with the state Governments and Industries. ICT Academy is a not-for-profit society, the first of its kind pioneer venture under the Public-Private-Partnership (PPP) model that endeavors to train the higher education teachers and students thereby exercises on developing the next generation teachers and industry ready students. ICT Academy was started to meet the skill requirements of the industry and generate more employment especially in tier 2 and 3 towns, the rural parts of the country. With training of teachers and students as the primary objective, ICT Academy has been working through a seven pillar program in the areas of Faculty Development, Student Skill Development, Entrepreneurship Development, Youth Empowerment, Industry-Institute Interaction, Digital Empowerment and Research & Publications.

Learnathon is one of the initiatives taken by the ICT Academy in partnership with global tech majors for the Student Skill Development. This is exclusive for all the member institutions. It is a self-learning initiative for higher education students to build their foundational IT skills online. To complete the learnathon courses the students must follow the following steps

Step 1

Students have to register at the ICT Academy Learnathon Portal

Step 2

Students receive "Learnathon Learning Guide" in registered email along with the learning Guidelines. This document provides guidelines for students to complete online learning courses through ICT Academy's Learnathon 2023 program. It lists 12 partner organizations including Microsoft, AWS Academy, Automation Anywhere, Bentley, Celonis, Google, MathWorks, Qlik, Juniper Networks, Wadhwani Foundation, UiPath Academic Alliance, MongoDB, VMware, and IIT Madras Pravartak offering various online courses. It instructs students to complete a minimum of 8 courses to be eligible for a completion certificate. It provides contact information for any assistance and encourages students to visit the Learnathon website daily for updates.

Step 3

Student starts self-learning of Learnathon courses.

Step 4

Students submit the certificates / credentials earned in minimum 8 courses to receive the ICT AcademyLearnathon2023Certificate.

Step 5

College SPOC can report back to the ICT Academy on their student's completion

Step 6

Success Students will receive Learnathon 2023 certificate.

BRAIN O VISION

Certificate Of Participation
International Level Student Workshop - 2k24
On Data Science using Python
Proudly Presented to
MITHUSHAN N S

Organized by THIRUTHANGAL NADAR COLLEGE, Chennai, Tamil Nadu,
In Association with BRAINOVISION SOLUTIONS INDIA PVT. LTD.
During the period Feb 19th, 2024 to Feb 23rd, 2024.
"Congratulations and best wishes on your remarkable achievement!"

Certificate ID: INSW24BOVTNC002
INSW 2024
Date of Issue: Feb / 26 / 2024

Dr.V.Devi — Principal, Thiruthangal Nadar College
Thiru. A. Narayana Murthy — Secretary & Correspondent, Thiruthangal Nadar College
Ganesh Nagu D — Founder & CEO - Brainovision
Dr.Buddha Chandrasekhar — Chief Coordinating Officer - AICTE

Certificate Of Participation
International Level Student Workshop - 2k24
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Certificate ID: INSW24BOVTNC078
INSW 2024
Date of Issue: Feb / 26 / 2024

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Certificate Of Participation

International Level Student Workshop - 2k24

On Data Science using Python

Proudly Presented to

MADHUMITHA

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Certificate ID: INSW24BOVTNC010

INSW 2024

Date of Issue: Feb / 26 / 2024

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Certificate Of Participation

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On Data Science using Python

Proudly Presented to

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Certificate ID: INSW24BOVTNC079

INSW 2024

Date of Issue: Feb / 26 / 2024

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Thiru. A. Narayana Murthy — Secretary & Correspondent, Thiruthangal Nadar College
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Dr.Buddha Chandrasekhar — Chief Coordinating Officer - AICTE

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Certificate Of Participation
International Level Student Workshop - 2k24
On Data Science using Python
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Certificate ID: INSW24BOVTNC085
INSW 2024
Date of Issue: Feb / 26 / 2024

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Ganesh Nagu D — Founder & CEO - Brainovision
Dr.Buddha Chandrasekhar — Chief Coordinating Officer - AICTE

Certificate Of Participation
International Level Student Workshop - 2k24
On Data Science using Python
Proudly Presented to
PUGAZHUDIYAR A
Organized by THIRUTHANGAL NADAR COLLEGE, Chennai, Tamil Nadu,
In Association with BRAINOVISION SOLUTIONS INDIA PVT. LTD.
During the period Feb 19th, 2024 to Feb 23rd, 2024.
"Congratulations and best wishes on your remarkable achievement!"

Certificate ID: INSW24BOVTNC020
INSW 2024
Date of Issue: Feb / 26 / 2024

Dr.V.Devi — Principal, Thiruthangal Nadar College
Thiru. A. Narayana Murthy — Secretary & Correspondent, Thiruthangal Nadar College
Ganesh Nagu D — Founder & CEO - Brainovision
Dr.Buddha Chandrasekhar — Chief Coordinating Officer - AICTE

	NAAC CYCLE III - AQAR	1.2.2 & 1.2.3 Add-on / Certificates / MoU
	1.2 Academic Flexibility	Year: 2023-2024

Thiruthangal Nadar College
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REPORT

International-Level Online Student Workshop on Data Science

Thiruthangal Nadar College organized India's biggest International-Level Online Student Workshop on Data Science, from February 19th to 23rd, 2024 as one of the Host colleges in association with Brain o vision Solutions India Pvt Ltd. and AICTE. Around 976 students from our college attended this 5 days virtual workshop. Dr. Buddha Chandrasekhar- Chief Coordinating Officer AICTE was the chief guest on the inauguration of this virtual workshop.

https://www.youtube.com/@brainovision

https://www.youtube.com/@brainovision

https://www.youtube.com/live/lE7bYtfRf6M?si=HbHBKF3fcHrY-lUC

SKILL-A-THON

	NAAC CYCLE III - AQAR	1.2.2 & 1.2.3 Add-on / Certificates / MoU
	1.2 Academic Flexibility	Year: 2023-2024

Thiruthangal Nadar College
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UiPath Academic Alliance | ICTACADEMY

Is proudly presented to:

SWATHI R

For successfully completing

UiPath Automation Explorer for Students

Automation Explorer
SKILL-A-THON
2024

UiPath Academic Alliance | ICTACADEMY

Is proudly presented to:

E Prabu

For successfully completing

UiPath Automation Explorer for Students

Automation Explorer
SKILL-A-THON
2024

REPORT

Skillathon 2023

Intelligent Automation has emerged as a game-changer, revolutionizing how organizations streamline and optimize their operations. The advent of low-code and no-code platforms has democratized the Intelligent Automation landscape.

Discover the world of Intelligent Automation at the Skill-A-thon 2024 is an initiative by ICT Academy of Tamil Nadu in association with UiPath Academic Alliance For inculcating the knowledge on Intelligent Automation among higher education students. In this self-learning program, higher education students can showcase their Intelligent Automation process! This self-learning platform will make them to explore the world of Intelligent Automation.

By proactively developing Intelligent Automation literacy, individuals' future-proof their careers, ensuring they remain adaptable and in-demand in the dynamic job market.

The students undergo the following steps to complete the Skill-A-Thon course

1. **Start**
2. **Students Register On Skill-A-Thon Portal**
3. **Students Receive 'Skill-A-Thon 2024 Learning Guide' Via Email**
4. **Guide Includes Course Registration Process, Learning Platform Links, And Course Details**
5. **Students Start Self-Learning**
6. **Students Complete Suggested Learning Paths**
7. **Students Earn Certificates/Credentials**
8. **Students Submit Certificates/Credentials**
9. **Eligible For UiPath Forum Special Badge**

PANTECH IOT MASTER CLASS COURSE

NAAC CYCLE III - AQAR	1.2.2 & 1.2.3 Add-on / Certificates / MoU
1.2 Academic Flexibility	Year: 2023-2024

Thiruthangal Nadar College
Knowledge is Power

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE NO ___PEL_PART_IOT_0412___

PANTECH SOLUTIONS®
Technology Beyond The Dreams

CERTIFICATE
OF PARTICIPATION

NAME ___J.JONESMARTEEN___

COLLEGE ___TNC___

has Successfully Completed
30 Days Masterclass on Internet Of Things

at Pantech e Learning Pvt Ltd, Chennai

From ___12.07.2023___ to ___12.08.2023___

_____
Sh. K. K. Thakur
CHAIRMAN
IETE, Ranchi

_____
M.Malaiyappan
Director
Pantech e learning

Pantech e Learning
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CERTIFICATE NO _PEL_PART_IOT_0457_

PANTECH SOLUTIONS®
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CERTIFICATE
OF PARTICIPATION

NAME MOHAMMED TAJUDEEN.Z

COLLEGE THIRUTHANGAL NADAR COLLEGE

has Successfully Completed

30 Days Masterclass on Internet Of Things

at Pantech e Learning Pvt Ltd, Chennai

From 12.07.2023 to 12.08.2023

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Sh. K. K. Thakur
CHAIRMAN
IETE, Ranchi

_____
M.Malaiyappan
Director
Pantech e learning

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Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE NO PEL_PART_IOT_0462

PANTECH SOLUTIONS
Technology Beyond The Dreams

CERTIFICATE
OF PARTICIPATION

NAME K.BALAJI

COLLEGE THIRUTHANGAL NADAR COLLEGE

has Successfully Completed

30 Days Masterclass on Internet Of Things

at Pantech e Learning Pvt Ltd, Chennai

From 12.07.2023 to 12.08.2023

Sh. K. K. Thakur
CHAIRMAN
IETE, Ranchi

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NAAC CYCLE III - AQAR	1.2.2 & 1.2.3 Add-on / Certificates / MoU
1.2 Academic Flexibility	Year: 2023-2024

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COLLEGE TNC

has Successfully Completed

30 Days Masterclass on Internet Of Things

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From 12.07.2023 to 12.08.2023

Sh. K. K. Thakur
CHAIRMAN
IETE, Ranchi

M.Malaiyappan
Director
Pantech e learning

REPORT

30 days Master Class on Internet of Things

Our students successfully completed 30 days Master Class on Internet of Things conducted by PanTech. E-Learning Pvt. Ltd. Chennai from 12/07/23 to 12/08/23 and received their certificates. Students attended a Hand-Guided LIVE Session from Basic to Advanced Concepts of IoT as follows:

Topics Covered:

- **Day 1 – IOT Introduction**
- **Day 2 – ESP8266 Introduction & IDE Installation**
- **Day 3 – ADC, PWM & Deep Sleep**
- **Day 4 - Smart Street light using LDR and IR Sensor**
- **Day 5 - PIR Sensor interface using Interrupts and Timers**
- **Day 6 – DHT11 Sensor Interface with Thing Speak Cloud**
- **Day 7 – Ultrasonic interface with Thing Speak Cloud**
- **Day 8 – Monitoring Soil Moisturization using Ask Sensor cloud**
- **Day 9 - Event Management System Using RFID Thing Speak Cloud**
- **Day 10 - Gas Leakage Detection Using Arduino IOT Cloud**
- **Day 11 – UART Communication between ESP8266 & Arduino UNO**
- **Day 12 – SPI Communication between ESP8266 & Arduino IDE**
- **Day 13 - I2C LCD**
- **Day 14 – Build an ESP8266 Webserver**
- **Day 15 – ESP8266 Webserver HTTP Authentication (Username and Password Protected)**
- **Day 16 – ESP8266 Webserver with BME280 Sensor**

- **Day 17 – DS3231 RTC Module Interface**

- **Day 18 – IOT Based Heartbeat Monitoring System**

- **Day 19 - Sending Email Using SMTP**

- **Day 20 – ESP8266 NodeMCU Webserver with Slider: Control LED brightness using PWM**

- **Day 21 - Controlling Outputs using Webserver**

- **Day 22 – NodeMCU sends messages to WhatsApp using WhataBOT API**

- **Day 23 - Control ESP8266 Outputs using Telegram**

- **Day 24 – ESP8266 NodeMCU Webserver using Server-Sent Events (Update Sensor Readings Automatically)**

- **Day 25 – Getting Started With Firebase (Real-time Database)**

- **Day 26 – ESP8266 Firebase: Send BME280 Sensor Readings to the Real-time Database**

- **Day 27 – ESP8266 Publish Sensor Readings to Google Sheets**

- **Day 28 – ESP8266 Daily Task – Publish Temperature Readings to Thing Speak**

- **Day 29 – ESP8266 NodeMCU Door Status Monitor with Telegram Notifications**

- **Day 30 – ESP8266 NodeMCU Web Serial: Web-based Remote Serial Monitor**

Students learnt also about NODE MCU and how to Implement IoT Applications with NODEMCU with ease.