



IoT & Connected Systems

From Arduino and NodeMCU to MQTT, ESP8266, LPWAN, and Industrial IoT — a hands-on, project-driven program built to turn you into a confident IoT engineer



35+

Industry Certifications

6+

Live projects

13.6k+

Students Trained

WHO WE ARE

Our Mission & Vision

Skillumni is a leading edtech platform focused on transforming careers through high-quality upskilling and training across diverse industries. We connect learners with cutting-edge courses, expert mentors, and practical projects to bridge the gap between education and real-world careers.



Our Vision

To empower every learner through accessible, inclusive, and impactful education — creating equal opportunities for all, regardless of background or geography.



Our Mission

To deliver quality education through career-driven courses that empower success — equipping learners with the skills, tools, and confidence to thrive in today's job market.

WHY CHOOSE US

Why Choose Skillumni for Smarter Learning?

Participate in Skillumni's comprehensive training program designed to elevate your skill set and equip you with practical tools to effectively solve real-world problems.



Industry-Driven Learning Paths

Curriculum built around what employers actually need — not textbooks.



Lifetime LMS Portal Access

Revisit lessons, access new content, and keep growing at your own pace.



Hands-On Domain Based Projects

Build real projects that showcase your skills to future employers.



Earn 2+ Industry Certifications

Globally recognized certificates to validate your expertise.

Your Learning Journey with Skillumni

1

Enrol

Pick your domain — no prior experience needed.

2

Learn

Access recorded sessions & lifetime LMS portal.

3

Build Projects

Complete 1 minor & 1 major industry project.

4

Get Certified

Earn course & internship completion certificates.

5

Launch Career

Resume help, mock interviews & placement support.

Training Spotlight

- Content developed by experienced industry mentors for real-world application.
- 35+ Hours of Learning, Comprehensive video lessons, exercises, and guided modules.
- Lifetime LMS Access to Revisit all learning materials, updates, and resources—forever.
- Access the program anytime, anywhere through our online platform.
- Build practical skills with real-world project work.
- Certification Showcase your achievement and boost your career profile.
- Regular Assessments to Evaluate your progress and strengthen your understanding.

Curriculum:

Module 1: Introduction to IoT

- M2M towards IoT — the global context
- IoT products by Indian companies

Module 2: Hardware Layer — Arduino

- Industrial Internet of Things
- Getting started with Arduino Uno R3
- Switch interfacing with Arduino

Curriculum:

Module 3: Sensor Interfacing

- Introduction to basic sensors
- IR proximity sensor working & interfacing
- DHT11 interfacing & working principle

Module 4: NodeMCU & Device Data/Control

- Arduino — open source hardware platform
- Pin configuration & functionalities
- Accessing the UI in a local network

Curriculum:

Module 5: Wireless Communication Protocols

- IPv4 vs IPv6
- Introduction to 6LoWPAN
- Bluetooth, WiFi, LoRaWAN & NFC

Module 6: MQTT Fundamentals

- Introduction to MQTT
- Basic MQTT concepts
- Working with online MQTT brokers

Curriculum:

Module 7: ESP8266 Programming

- ESP8266 overview
- NodeMCU with ESP8266

Module 8: MQTT Broker Applications

- Controlling actuators via MQTT
- Wireless sensor network with multiple NodeMCUs
- Node-to-node communication

Curriculum:

Module 9: Webserver with ESP8266

- Building a webserver on ESP8266
- Working with websockets

Module 10: IoT with CLI & Anaconda

- Introduction to Anaconda Prompt
- MQTT from Command Prompt & Anaconda Prompt
- IoT & robotics with CLI commands

Curriculum:

Module 11: Introduction to LPWAN

- Wired vs wireless IoT communication
- Low Power Wide Area Network (LPWAN)

Module 12: Industrial IoT

- Industrial Internet of Things
- Smart factory concept
- Automation to digitalization

Skills You Get:

- IoT & M2M Fundamentals
- Arduino & Sensor Interfacing
- NodeMCU & Wireless Protocols
- MQTT & ESP8266
- LPWAN & Long-Range Networks
- Industrial IoT

Training Program Outline



Before Training

- No prior experience required
- Beginner friendly — any domain
- Start fresh, choose your specialization



Training

- Recorded sessions + study materials
- Lifetime LMS access
- Flexible, self-paced learning



Industrial Projects

- Complete 1 Minor Project
- Complete 1 Major Project
- Real-world business problems



Certification

- Course Completion Certificate
- Internship Completion Certificate
- Letter of Recommendation (optional)



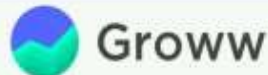
Placement Support

- Resume Building Assistance
- Mock Interview Preparation
- Dedicated Placement Assistance

OUR EXPERTS

Our Mentors Are From:

Learn directly from working professionals at India's top companies — real experience, real insights.



Earn 2+ Industry-Led Certifications

Upon successful completion, receive industry-recognized certificates that validate your skills and boost your career

prospects — whether you're aiming for a new job or a promotion.



Course Completion Certificate

Awarded upon finishing all course modules and assessments successfully.



Internship Completion Certificate

Issued after completing both the minor and major industry projects.



Letter of Recommendation

Optional — for outstanding performers, signed by Skillumni co-founder.



Outstanding Performance Certificate

Optional — recognises exceptional dedication and achievement.

Accreditations & Recognitions

Skillumni is proudly recognized under key Government of India initiatives — reflecting our compliance, credibility, and commitment to student success.



Startup India (DPIIT)

Dept. for Promotion of Industry &
Internal Trade, Govt. of India



MSME Certified

Ministry of Micro, Small & Medium
Enterprises, Govt. of India



Ministry of Corporate Affairs

Registered Private Limited Company,
Govt. of India

Hear It From Our Students



"Skillumni's AI internship was engaging and informative. Quality content and a smooth learning experience."

Roshini S

AI with Python



"Mentors are supportive and track progress. The doubt-clearing sessions are very helpful and effective."

Agnus Anna

Data Science



"Solid foundation in AI concepts with a strong focus on practical skills. Instructors made complex topics easy."

Ashwini Mahantesh

Artificial Intelligence



"Real-world projects boosted my confidence. Highly recommend for anyone looking to grow or switch careers."

Nikhil Arora

Career Switch



"Excellent platform with well-structured courses and knowledgeable instructors. Highly recommend to upskill."

Monika Moni

Web Development



"Great platform to focus on learning. Sessions were clearly thought out and covered the core concepts."

Sachetan Hallur

Finance

THANK YOU

We'd love to be part of your learning journey.

Need more insights? Our counsellors are here to guide you through every step.



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