



# SUMMER TRAINING PROGRAM

**DATA  
ANALYTICS  
ESSENTIALS**

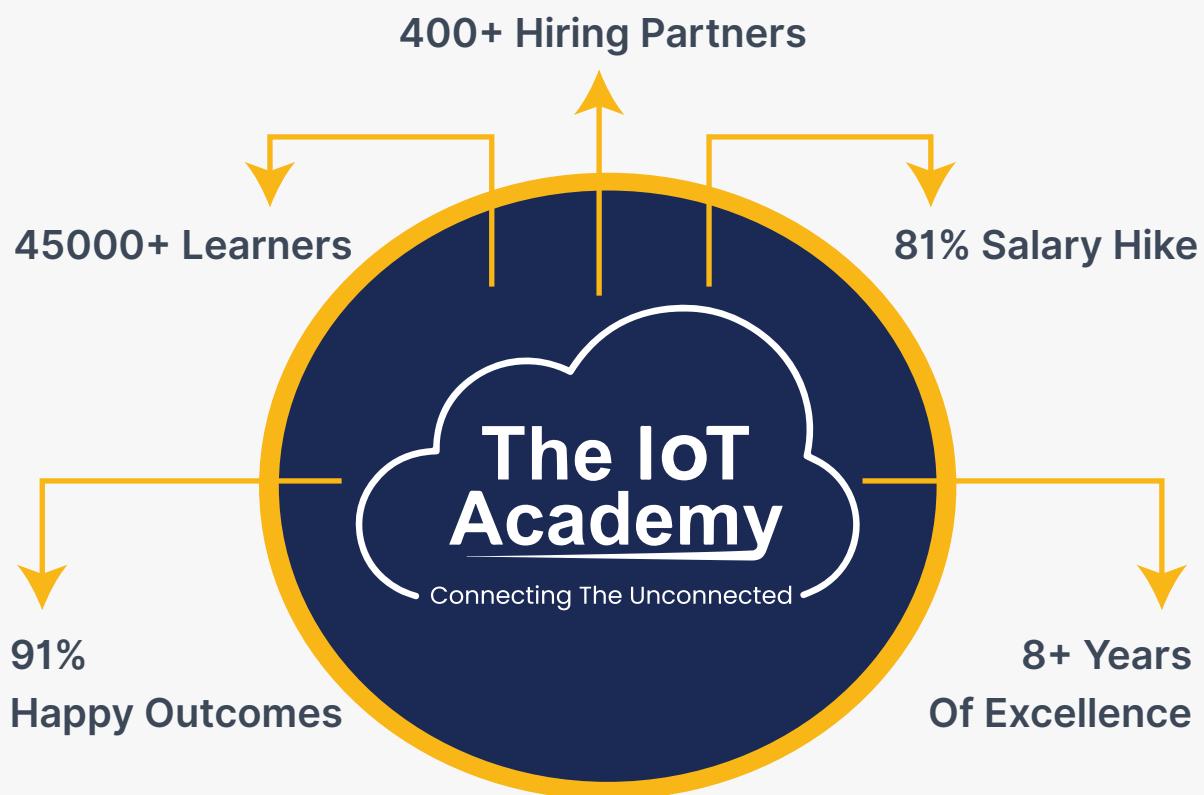
6 Weeks

# About The IoT Academy

The IoT Academy, established in 2017 is a fast emerging company imparting quality programs for skills training, internship and guidance in cutting edge technologies like **Data Science, Machine Learning, Artificial Intelligence, Internet of Things, Embedded Systems & many more** and focused on helping people develop the skills they need to thrive in the rapidly growing digital economy.

The IoT Academy has collaborated with various premier institutes e.g. **EICT Academy, IIT-Guwahati, IIT-Roorkee and IIT-Kanpur** for **Advance Certification courses** to take provide outcome-centric solutions to help them achieve their professional goals.

“ Empowering learners to discover, innovate, and create brighter futures through transformative education.”



# Our Services

*We provide these services in collaboration with our parent company UniConverge Technologies*

## **SETUP of IOT & Industry 4.0 LABS**

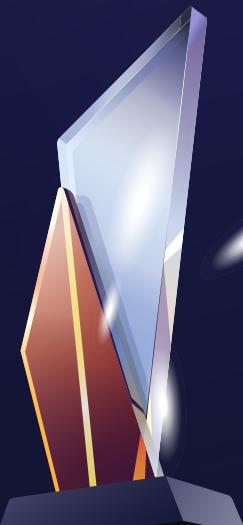
The IOT & Industry 4.0 Academy offers a self-sustainable model to learn the Internet of Things through IOT & Industry 4.0 Labs setup and supported by us.

## **FACULTY DEVELOPMENT PROGRAM (FDP)**

The IOT & Industry 4.0 Academy offers a self-sustainable model to learn the Internet of Things through IOT & Industry 4.0 Labs setup and supported by us.

## **CENTER OF EXCELLENCE (IOT & Industry 4.0 / ML-AI/ Cloud Computing (AWS)/ Industry4.0/ 5G)**

We help the educational institutes in developing and supporting the Innovation and Incubation centers that adhere to the best of the practices.



# Our Achievements

We work closely with industry and try to understand the implementation aspects of technologies and its usage(s); this allows staying in-sync with cutting age technologies. Our Salient achievements in past years.

- **20000+** Students Internship in 2023-2025
- **1400+** Faculty Training
- **65000+** Learners Training
- **50+** IoT/CPS Labs supply
- **17 Center for Excellence/ Innovation Labs (AI, IoT, 5G) MoUs with EICT Academy IIT Kanpur, IIT Roorkee, IIT Guwahati** for running certification program for Students & Faculties
- **35+ MoUs** for upskilling with various institutes
- Online self-paced learning/Internship platform for student and working.

# Placement Statistics

Average Salary

**9LPA**

Average Hike

**60%**



Placement Ratio



Career Transition



Fresher Students

## Corporates Who Hired from Us



**400+ Partner Companies**

# Why Choose Our Short-Term Courses?

## Industry-Relevant Curriculum

Get hands-on with tools, techniques, and frameworks used by professionals in the industry.

## Project-Based Learning

Apply what you learn through real-world projects and case studies.

## Flexible Learning

Access recorded sessions, live classes, and doubt-clearing sessions as per your schedule.

## Certificate of Completion

Earn a recognized certificate that adds credibility to your resume or LinkedIn profile.

## Internship Opportunity

Top performers will get one month internship with us.

## Career Services

Gain access to resume building sessions & mock interview preparations.

# Our Academic Partners



E&ICT Academy  
IIT Guwahati



E&ICT Academy  
IIT Roorkee



E&ICT Academy  
IIT Kanpur



IIT Jodhpur



E&ICT Academy  
NIT Patna



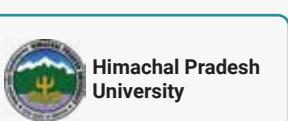
RFRF Foundation



ASTU  
Guwahati



IIT Bhilai



Himachal Pradesh  
University



ABES  
Engineering  
College



MSIT  
College



IPEC  
College

# Track The Curriculum

**Week 1**

Week 2

Week 3

Week 4

Week 5

Week 6

## Python for Data Analytics

- Introduction to Python
- Data types, variables, lists, dictionaries
- Loops, conditionals, and functions
- Working with Jupyter Notebooks

**Project:** "Student Scores Analyzer": Load a CSV of student scores, calculate averages, and identify top performers.

Week 1

**Week 2**

Week 3

Week 4

Week 5

Week 6

## Data Wrangling with Pandas

- Loading and inspecting datasets
- Data cleaning: handling nulls, outliers, duplicates
- Data transformation: groupby, pivot, melt
- Data merging and joins

**Project:** "Retail Store Sales Cleaner": Clean messy retail sales data and prepare it for analysis.

Week 1

Week 2

**Week 3**

Week 4

Week 5

Week 6

## Exploratory Data Analysis (EDA)

- Descriptive statistics
- Univariate and bivariate analysis
- Visualization with Matplotlib and Seaborn
- Correlation matrix and pair plots

**Project:** "Employee Attrition Study": Explore HR data and visualize attrition trends by department, salary, etc.

Week 1

Week 2

Week 3

**Week 4**

Week 5

Week 6

## Data Visualization & Storytelling

- Effective charting: line, bar, pie, histogram, heatmap
- Plotting with Seaborn, Matplotlib, Plotly
- Data storytelling & dashboard design  
(optional intro to Tableau/Power BI)

**Capstone Project:** Analyze e-commerce data and present findings to a mock client

# Track The Curriculum

Week 1 Week 2 Week 3 Week 4 **Week 5** Week 6

## Statistical Analysis for Decision-Making

- Mean, median, standard deviation
- Probability distributions
- Hypothesis testing (t-test, chi-square)
- Confidence intervals and p-values

**Project:** "AB Testing for Campaigns": Evaluate the success of two marketing campaigns using statistical testing.

Week 1 Week 2 Week 3 Week 4 Week 5 **Week 6**

## Final Project + Reporting

- Final project work and guidance
- Building insights summary
- Writing data reports (Markdown, PDF, Slides)
- Presenting findings

### Capstone Project (Choose One):

#### E-commerce Customer Behavior Analysis

Analyze customer purchase patterns, churn, and recommend retention strategies.

#### Bank Loan Default Prediction (EDA only)

Explore loan data and provide actionable insights to reduce default rates.

#### City Traffic Data Analytics

Analyze traffic congestion patterns and suggest policy improvements.

# What Our Learners Say About Us

## Abhinav



An exceptional hands-on experience! The Applied Data Science course by The IoT Academy in collaboration with IITG provided me with good project exposure that truly prepared me for the industry. With expert guidance and a collaborative community.

## Raghvendra Tiwari



The digital marketing course really impressed me! It taught me about search engine optimization (SEO), social media strategies, and how to analyze data giving me the tools I need to help any brand succeed online. This course is perfect for marketers at any level!

## Deep Acharjee



I completed a 45-day industrial internship with IoT Academy in an online format. The entire team at the academy was exceptional. Additionally, the sales team provided all the necessary information and support to ensure the smooth operation of my internship throughout its duration. Sir Devesh, an outstanding faculty member, offered in-depth technical insights into embedded systems and IoT, addressing all of my queries. I am deeply grateful to the entire IoT Academy team for their assistance and guidance.

## Ajitesh Rana



I recently had the pleasure of enrolling in IoT and Python courses at The IoT Academy, and I am genuinely impressed with the quality and depth of the content offered. From start to finish, the experience was nothing short of exceptional. The IoT Academy's IoT and Python courses exceeded my expectations on all fronts. If you're looking to gain a solid understanding of IoT concepts and harness the power of Python in IoT applications, I wholeheartedly recommend enrolling in their courses.

## Vitoka H Sema



It's a very informative and practical place to learn. The I highly recommend others looking for a course in IoT and Embedded system and even other courses the faculties are very friendly and fun loving and their way of teaching is very practical. I learned a lot of new things.

## Ankit Kumar



A wonderful learning experience with the IoT Academy, everything is good from curriculum to trainers so supportive.

# What Our Learners Say About Us

## Sana Tasneem



The IoT Academy provided a wonderful learning platform and experience for the students, taught by an amazing faculty. Every topic was covered thoroughly and made easy for students to understand.

## RAVI KASAUDHAN



It's the best platform of learning The IoT Academy, You can easily learn online Internet of things .... Follow their official site & also you can follow on Instagram and LinkedIn

## Mayank Bhandari



I think the experience with IoT Academy was amazing. I was provided with current problem of COVID-19 and was asked to visualize and predict the scenario, which I really loved to work upon, and meantime learned a lot during doing that. I even got certificate after successful completion of work. So at the end, I will just say I enjoyed it.

## Anmol Pruthi



I was not sure about doing the Java course but when I joined the IoT Academy, I saw a great change in myself. I was getting more eager to learn everything from the trainer. The best atmosphere I have seen of learning is at The IoT Academy. If you want to get best out of you Join the IoT Academy.

## Goldie Behl



I had a great time doing this course and everyone involved in The IoT Academy has made it a great experience. I have been recommending you to everyone I know. Thank you for all the assistance and feedback, it has been delightful and very gratifying.

## Harshita Mahanta



The training was really awesome, it helped me to gain new knowledge not only about IoT but also about the importance of programming. The experts, guides, mentors all were very supportive and provided much valuable advices. The contents that were provided included all the necessary things and really helped me to learn something new.



***The IoT Academy***  
*is the hub for certifications across diverse career  
growth oriented programs*

**“You Dream It,  
We Make It Happen”**

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