



# DATA ANALYST

By The IoT Academy

THE  
**FUTURE**  
STARTS HERE

Aspirations of Candidates  
Seeking Assistance.



+91-93540 68856



[www.theiotacademy.co](http://www.theiotacademy.co)

#BROCHURE



## About The Program

The Data Analytics program is a 4-month, 78-hour immersive course designed to equip learners with practical data skills. It begins with core analytics tools—Excel, SQL, and Python—followed by deep dives into data cleaning, statistics, and exploratory data analysis. Learners then master data visualization using Power BI or Tableau and gain exposure to essential machine learning techniques like regression, clustering, and classification.

This program focuses on practical, industry-ready skills through real-world datasets and hands-on projects in Excel, SQL, Python, and tools like Power BI/Tableau. Each module includes mini-projects, ending with a capstone to solve real business problems using Python and SQL.

### In Association With



Electronics & ICT Academy

Indian Institute of Technology Guwahati

An Initiative of Ministry of Electronics & Information Technology(MeitY)



A MeitY - nasscom Digital Skilling Initiative



E&ICT Academy  
IT Kanpur



E&ICT Academy  
IIT Roorkee



NIT Patna



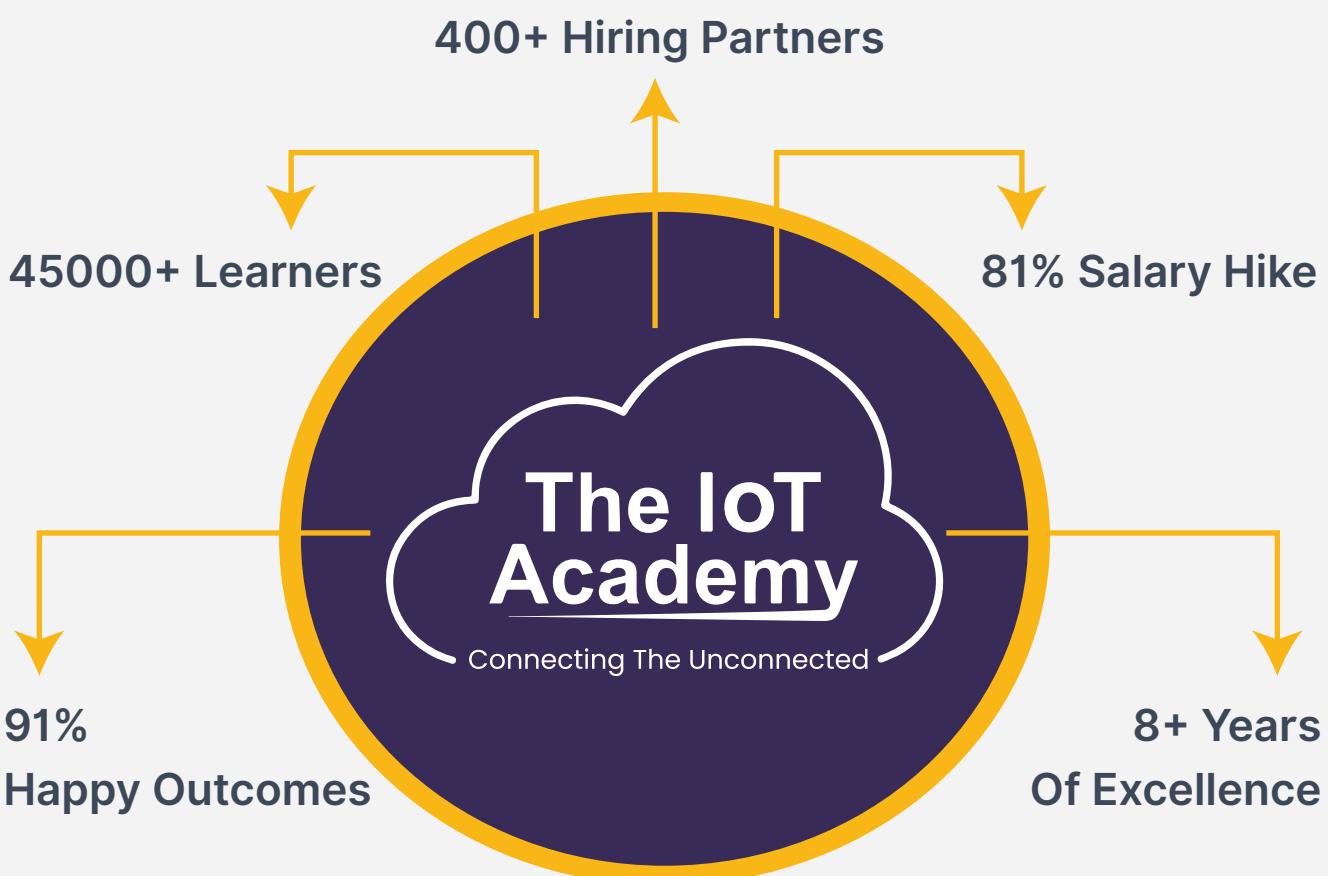
IIT Bhilai

## 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. E&ICT 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. ”





## Why Is Data Analyst Important?

Insights from data empower professionals to make informed decisions, optimize operations, and uncover growth opportunities. With strong foundations in analysis, visualization, and interpretation, data-driven thinking fuels smarter strategies across industries like healthcare, finance, and business.

Our course equips you with these in-demand skills, whether you're starting out or aiming to sharpen your analytics expertise.

**Virtual Personal Assistants**

**Social Media Services**

**Email Spam and Malware Filtering**

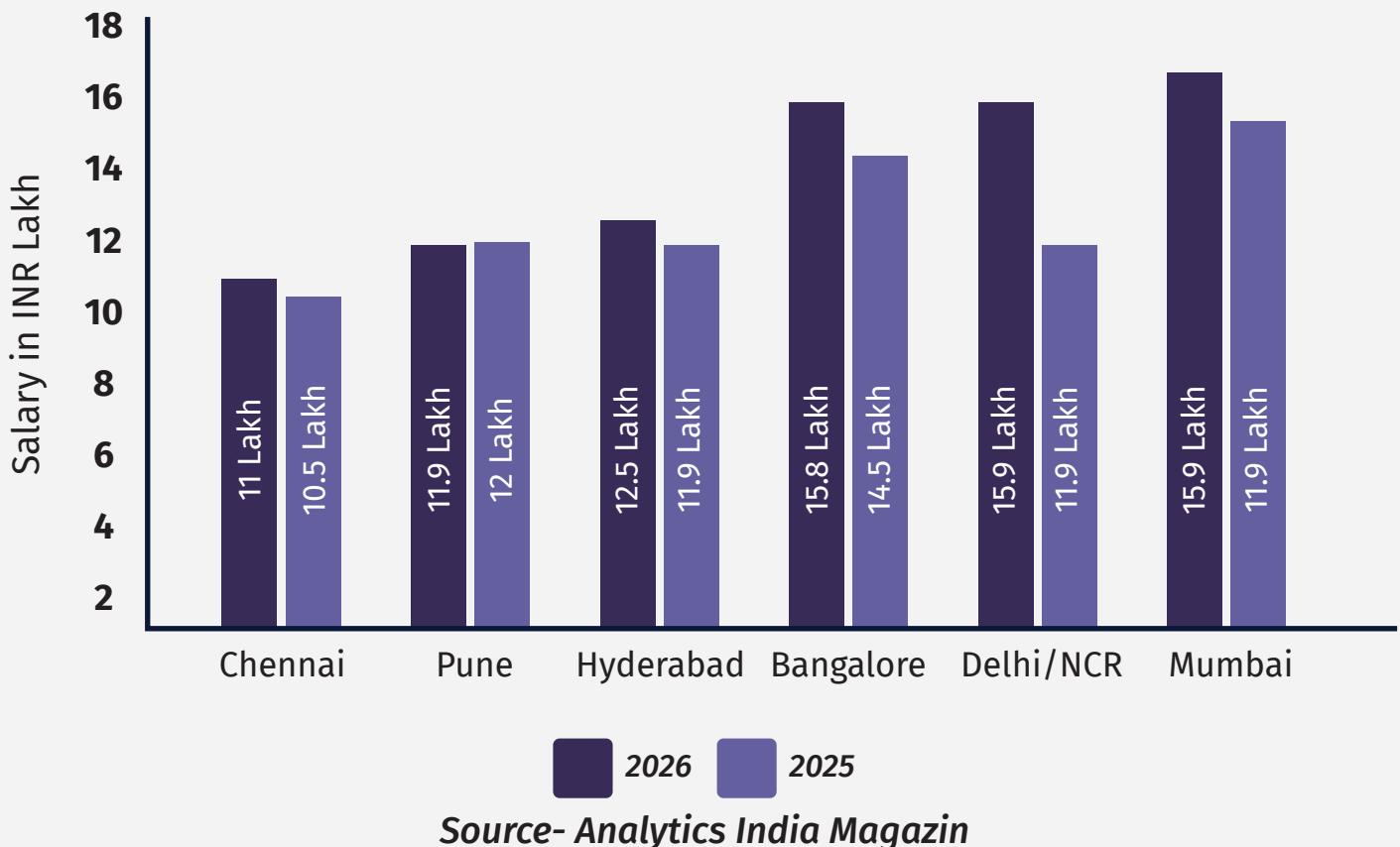
**Search Engine Result Refining**

**Online Fraud Detection**

**Product Recommendations**

## Current Trends In DS & ML Job Market

As per Gartner, Data Analyst will create 23 Lakhs job openings by 2025-26. The average annual salary of an DA, DS & ML in India is Freshers: Between ₹ 6,99,807-8,91,326 Experienced: Between ₹ 35,00,000 - 50,00,000 (Salary per annum).



## Program Benefits



### Practical Knowledge

Live instructor-led online classes by industry experts.



### Personalised Attention

Dedicated technical and non-technical teams to resolve all your doubts.



### Curriculum

Curriculum designed by experienced professors and industry experts.



### Doubt Clearing Sessions

24x7 subject matter expert support for your technical/non-technical doubts



### Support and Guidance

Lifetime access to our Learning Management System and Program Support



### Certificate/Credentials

Certificate of Completion from The IoT Academy



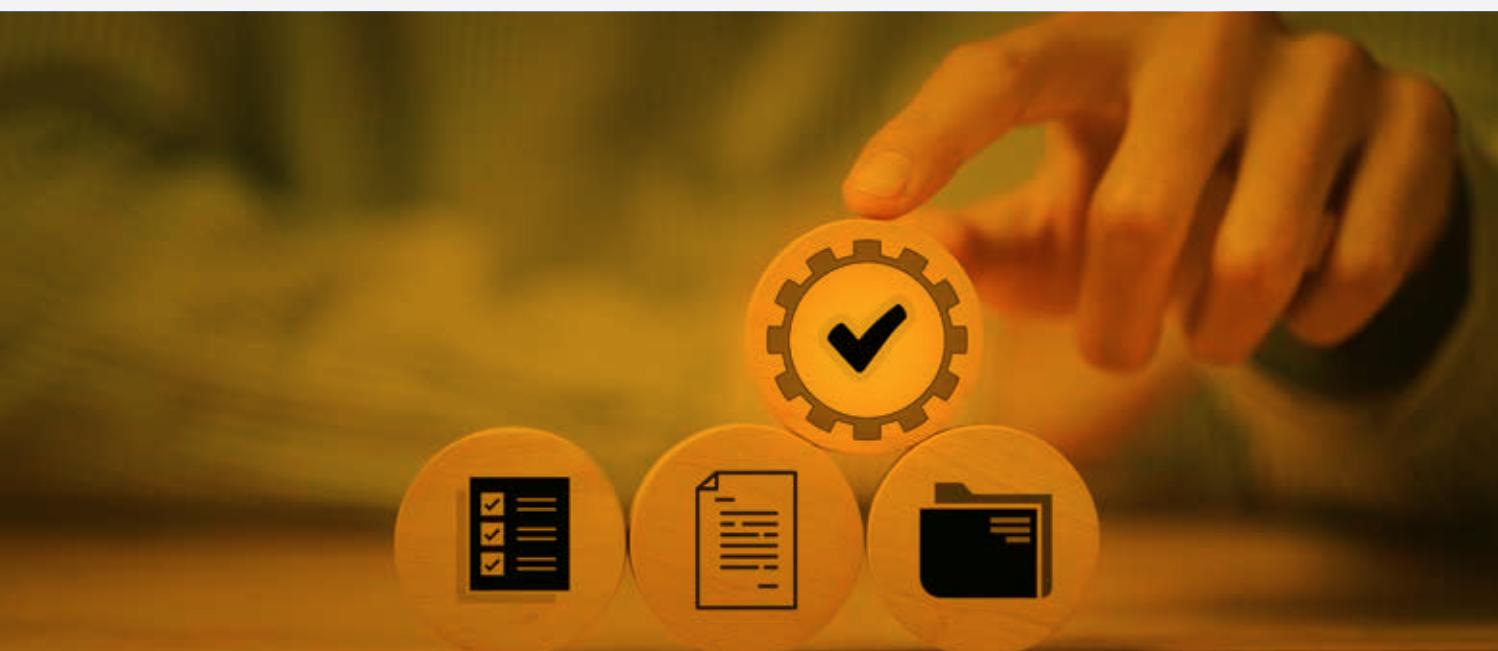
### Career Guidance and 100% Placement Support

Complete access to a plethora of our Career Assistance and Placement Services.



### Immersive Learning Experience

A unique learning ecosystem to give you an offline-like immersive experience



## Module 1 : Python Basics

- Introduction To Python
- Writing and executing first python program
- Python language fundamentals
- Python conditional statements
- Looping statements
- Standard data types
- String handling
- Python list
- Python tuple
- Python set
- Python dictionary
- Python functions
- Modules & packages
- File I/O
- Object oriented programming
- Exception handling
- GUI programming
- Multi-threading programming
- Regular expressions(Regex)
- Numpy Package
- Pandas Package
- How to load datasets
- Accessing data from Data Frame
- Data Visualization using matplotlib and seaborn packages

# Program Curriculum

MONTH 2

Module 1    **Module 2**    Module 3    Module 4    Module 5    Module 6    Module 7  
                  Module 8

## Module 2 : SQL

- Introduction to Database
- SQL (Structured Query Language)
- SELECT, WHERE, GROUP BY, JOINs
- Filtering and sorting
- Basic aggregations
- Intermediate
- Subqueries
- Window functions
- Case statements

MONTH 3

Module 1    Module 2    **Module 3**    Module 4    Module 5    Module 6    Module 7  
                  Module 8

## Module 3 : Statistics

- Introduction to Statistics
- Measures of Central Tendency
- Data Distributions
- Hypothesis Testing

# Program Curriculum

MONTH 4

Module 1    Module 2    Module 3    **Module 4**    Module 5    Module 6    Module 7  
Module 8

## Module 4 : EDA

- Describe()
- Groupby()
- Crosstab()
- Boolean slicing/query()
- Data Manipulation & Cleaning
- Categorical Data Encoding
- Handling Date and Time

MONTH 4

Module 1    Module 2    Module 3    Module 4    **Module 5**    Module 6    Module 7  
Module 8

## Module 5 : Power BI

- Introduction to power bi
- Data visualization
- Power bi service, publishing & sharing
- Data transformation shaping & combining data
- Data modeling & DAX

# Program Curriculum

MONTH 5

Module 1    Module 2    Module 3    Module 4    Module 5    **Module 6**    Module 7  
Module 8

## Module 6 : Tableau

- Tableau introduction
- Comparing tableau with power bi
- Dimension & measure
- Tableau charts
- Tableau filters
- Tableau dashboards
- Tableau story
- Calculated fields
- Publishing report to server

MONTH 6

Module 1    Module 2    Module 3    Module 4    Module 5    Module 6    **Module 7**  
Module 8

## Module 6 : Advanced Excel

- Advanced excel course-overview of the basics of excel
- Working with functions
- Advanced excel course data validations
- Advanced excel course-working with templates
- Advanced excel course- sorting and filtering data
- Advanced excel course-working with reports
- Advanced excel course more functions
- Advanced excel course- sorting and filtering data
- Advanced excel course-macros
- Advanced excel course-whatif analysis
- Advanced excel course-new features of excel
- Advanced excel course-final assignment

## Module 6 : VBA (Visual Basic For Application) & Macros

- Create a macro
- MsgBox
- Workbook and worksheet object
- Range object
- Variables
- If then statement
- Loop
- Macro errors
- String manipulation
- Data and time
- Events
- Array
- Function and sub
- ActiveX controls
- User form

# Live Industry-Based Projects

Industry projects are an integral part of the Data Analyst course. These projects provide hands-on exposure to real-world challenges, equipping you with practical experience.

## Weather Trends Analysis

Study past weather data to find patterns, like which months are hottest or when it usually rains.



## Stock Market Trends

Analyze past stock prices to spot trends and big changes in the market.



## Customer Segmentation for Shops

Group shop customers by how they buy things to help stores sell better and plan offers.



## Product Review Sentiment Analysis

Study online reviews to learn what customers like or dislike about a product.



# 100% Placement Support

## Live Career-Oriented Webinars

Live webinar sessions that include curriculum and career services walk throughs to help learners understand their learning objective and expectations of hiring managers.

## Leadership Skill Development Sessions

Recurring training sessions with experts to help learners Develop Interpersonal & Leadership Skills.

## 1-on-1 Career Mentoring Sessions

One-on-one Career Mentoring sessions on how to develop the right skills and attitude to secure a dream job.

## Exhaustive Interview Preparation

Expert tips, sample interview questions, mock interviews with constructive feedback from industry experts to gain hands on experience of technical rounds, HR round, and more.

## Job Search Assistance & Job Feeds

Access to multiple job portals to help learners navigate through thousands of jobs including global remote jobs.

## Profile Building Assistance

A dedicated Career Coach will provide expert tips on how to create an attractive, relevant resume and LinkedIn profile.



## Top Recruiters

### Corporates Who Hired from Us



### What's In It For You

#### Entry-Level:

- Junior Data Analyst
- Data Analyst Intern
- Business Intelligence (BI) Analyst

#### Mid-Level:

- Data Analyst
- Business Data Analyst
- Data Visualization Specialist

#### Senior-Level:

- Senior Data Analyst
- Analytics Manager
- Data Science Lead

## Program Faculty Industry Experts



**Kaushlendra Sisodia**

Director At Uniconverge Technologies  
Pvt. Ltd.  
**IIT Kanpur Alumnus**



**Prof. Gaurav Trivedi**

Electronics & ICT Academy  
**IIT Guwahati**



**Mr. Sanjay Aggarwal**

Data Science With  
ML Expert IMS BHU Alumni  
**The IoT Academy**



**Prof. Sumit Kalra**

Department Of Computer  
Science & Engineering,  
**IIT Jodpur**



**Ashwani Kumar**

AI Expert 20+ Years  
Of Experience Alumni Of  
**University Of Miami**



## Learners Demographics



**Satyam**  
I&F Decision Practitioner  
Senior Analyst

**accenture**



**S. Shahidha Banu**  
Assistant Professor

Gauhati University  
Gauhati University  
Assam  
India  
781006  
Phone: +91 361 222 2222  
Email: [shahidha@gauhati.ac.in](mailto:shahidha@gauhati.ac.in)



**Sampa Barman**  
Assistant Professor

Gauhati University  
Gauhati University  
Assam  
India  
781006  
Phone: +91 361 222 2222  
Email: [sampa@gauhati.ac.in](mailto:sampa@gauhati.ac.in)



**Rohit Singh Parihar**  
Data Scientist

**NeoSOFT TECHNOLOGIES**



**Ravi Teja**  
Pricing Analyst

**Intouch<sup>ex</sup>**



**Rijul Bajaj**  
Data Analyst

**Easydata.ai**



**Swati Verma**  
Data Architect

**ScaleupAlly**



**Ritika Chetri**  
Consultant-M&E and Data Analyst

**DELTA MANDALA**



**Mr Swapnil Bhanushali**  
Senior Associate

**DBS**



**Bhaskarjyoti Goswami**  
IT CSV, Digitization

**SUN PHARMA**



**Saumya Singh**  
Project Manager - Mainframe

**BOSCH**



**Anushi Mittal**  
Business Analyst

**LATTICE TECHNOLOGY**



**Hemant Raj**  
Assistant Engineer R&D

**MORPHEDO<sup>®</sup>**  
staying close...



**Tanu Chinwan**  
Placed In

**Capgemini**



**Vaishali Singh**  
Placed In

**UKG**



**Vudit Kumar Pal**  
Placed In

**TIGRIS MOBILITY**

# Certification

Upon successfully completing this program, you'll earn Certification In **Data Analyst** by The IoT Academy.

This certificate will testify to your skills as an expert in **Data Analyst**.

SAMPLE CERTIFICATE

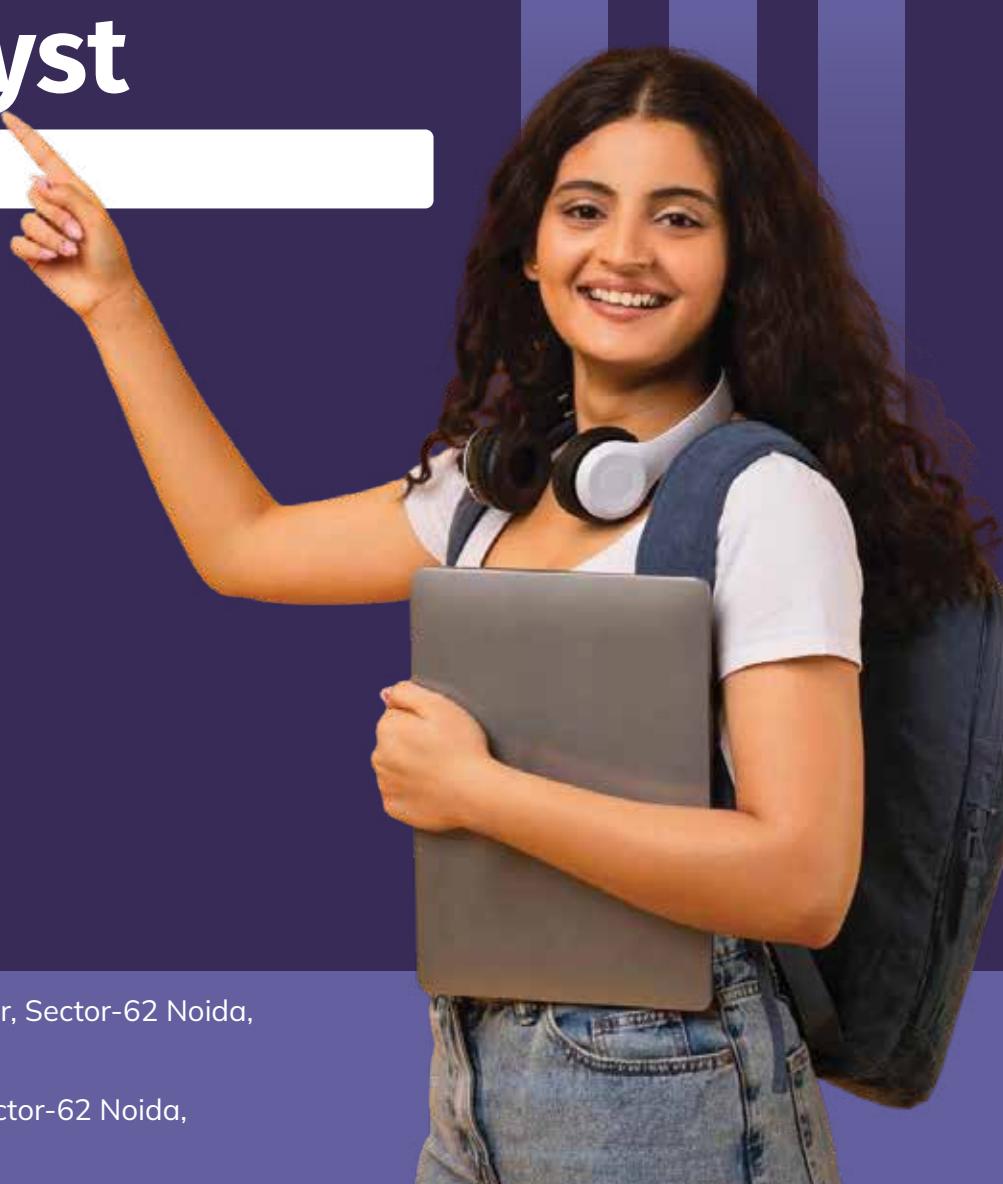
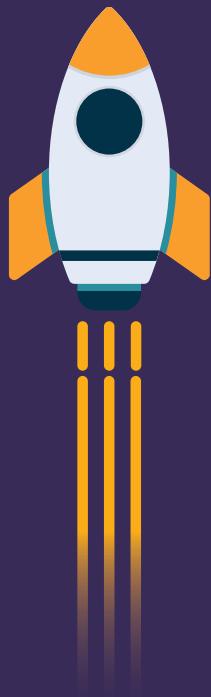




# THANK YOU!

## Data Analyst

By The IoT Academy



**HEAD  
OFFICE**

C-56/11, Ground Floor, Sector-62 Noida,  
Uttar Pradesh

**TRAINING  
CENTRE**

C-56/12, 3<sup>rd</sup> Floor, Sector-62 Noida,  
Uttar Pradesh

📞 093540 68856

✉️ info@theiotacademy.co

🌐 www.theiotacademy.co