The IoT
Academy
Connecting The Unconnected

DATA ANALYST
With Gen AI Tools

By The IoT Academy

THE
FUTURE
STARTS HERE

Aspirations of Candidates
Seeking Assistance.

+91-93540 68856

www.theiotacademy.co

#BROCHURE

About **The Program**

The Data Analytics with Gen AI Tools program is a 5-month, 120-hour immersive course designed to equip learners with practical data skills and GenAI proficiency. 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 uniquely integrates Generative AI, teaching LLMs, prompt engineering, and tools like ChatGPT, pandas-ai, and LangChain to automate tasks and build executive dashboards. It includes hands-on mini-projects and a final capstone using Python, SQL, and GenAI to solve real business problems.
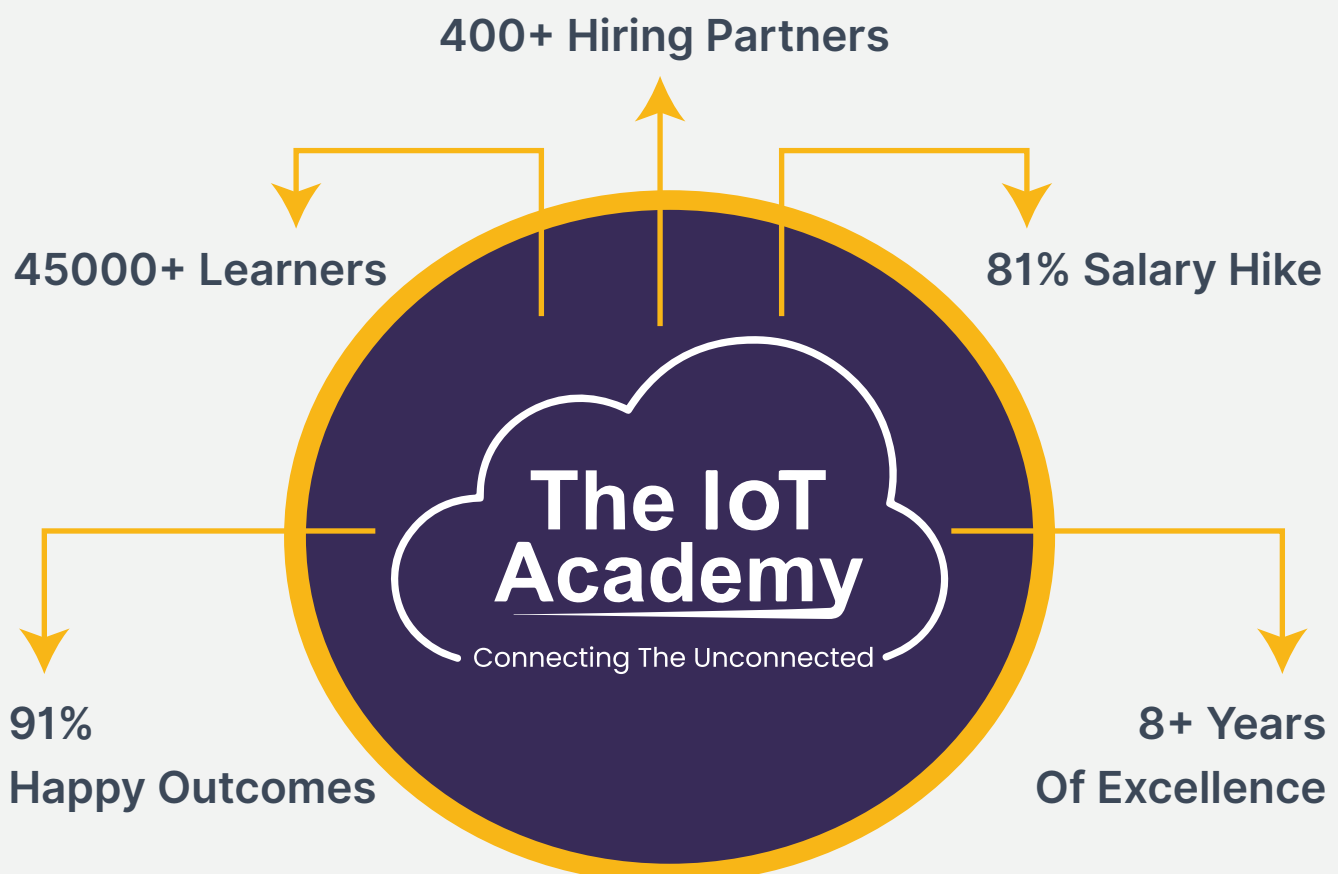
In Association With

Electronics & ICT Academy
Indian Institute of Technology Guwahati
An Initiative of Ministry of Electronics & Information Technology(Meity)

nasscom

futureskills prime
A MeitY - nasscom Digital Skilling Initiative

ISO 27001 CERTIFIED

eict IIT Roorkee
E&ICT Academy IT Kanpur

E&ICT Academy IIT Roorkee

NIT Patna

IIT Bhilai

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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.**

400+ Hiring Partners

45000+ Learners

81% Salary Hike

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91%
Happy Outcomes

8+ Years
Of Excellence

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Why Is Data Analyst With Gen AI Tools Important?

 insights from data, Generative AI enhances their work by automating reports, creating visualizations, and speeding up analysis. This powerful combo drives smarter decisions, greater efficiency, and innovation in fields like healthcare, finance, and business.

Our course equips you with the skills to thrive in this AI-powered era—whether you're starting out or looking to upskill.

Virtual Personal Assistants	Search Engine Result Refining
Social Media Services	Online Fraud Detection
Email Spam and Malware Filtering	Product Recommendations

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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).

Salary in INR Lakh

City	2026	2025
Chennai	11 Lakh	10.5 Lakh
Pune	11.9 Lakh	12 Lakh
Hyderabad	12.5 Lakh	11.9 Lakh
Bangalore	15.8 Lakh	14.5 Lakh
Delhi/NCR	15.9 Lakh	11.9 Lakh
Mumbai	15.9 Lakh	11.9 Lakh

■ *2026*   ■ *2025*
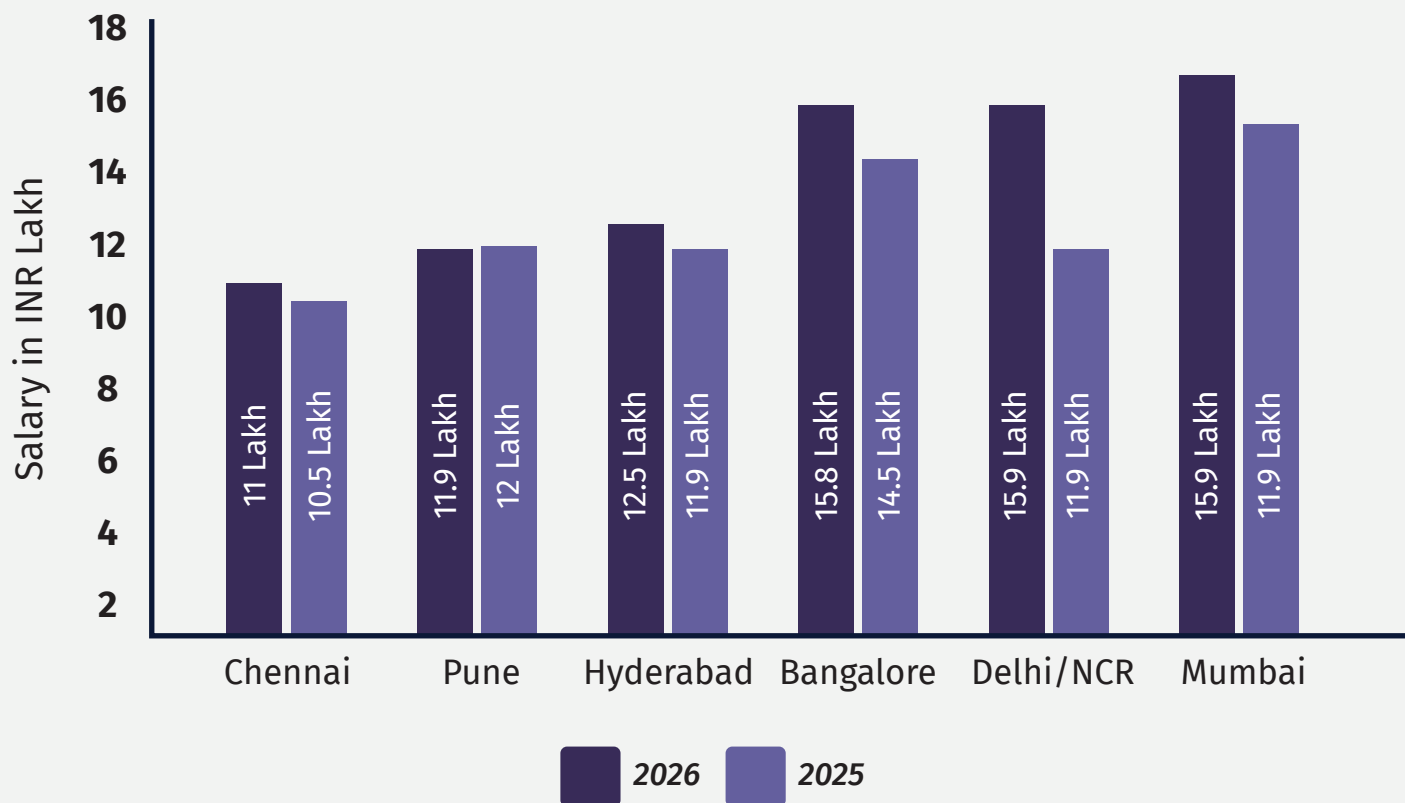
Source- Analytics India Magazin

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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

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Program Curriculum

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

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Program Curriculum

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

Module 3 : Statistics

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

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Program Curriculum

Module 4 : EDA

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

Module 5 : Power BI

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

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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

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

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Program Curriculum

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

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Program Curriculum

MONTH 5

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6	Module 7
Module 8	**Module 9**	Module 10				

Module 9 : GenAI for Automation & Analysis

- ChatGPT/Copilot for Python, SQL, and Excel automation
- GenAI for EDA & report generation (pandasai, gpt-engineer)
- No-code AI tools: Zapier, Flowise, Claude, Gemini

MONTH 5

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6	Module 7
Module 8	Module 9	**Module 10**				

Module 10 : GenAI-Enhanced Business Case Studies

- AI-Driven Case Analysis
- AI-Powered Slide Presentations
- Data-Backed Decision Making with GenAI

- **Capstone Project:** Automated Data Cleaning + AI Report Generation

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100% Placement Support

Live Career-Oriented Webinars

Live webinar sessions that include curriculum and career services walk throughto 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 handson 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.

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Live Industry-Based Projects

Industry projects are an integral part of the Data Analyst with Gen AI 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.

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Learners Demographics

Satyam
I&F Decision Practitioner
Senior Analyst

accenture

S.Shahidha Banu
Assistant Professor

Sampa Barman
Assistant Professor

Rohit Singh Parihar
Data Scientist

NeoSOFT
TECHNOLOGIES

Ravi Teja
Pricing Analyst

Intouch CX

Rijul Bajaj
Data Analyst

Easydata.ai

Swati Verma
Data Architect

ScaleupAlly

Ritika Chetri
Consultant-M&E and Data Analyst

SALWA
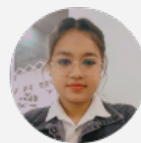MANDALA

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

Tanu Chinwan
Placed In

Capgemini

Vaishali Singh
Placed In

UKG

Vidit Kumar Pal
Placed In

TIGRIS
MOBILITY

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Top Recruiters

Corporates Who Hired form Us

HSBC	KPMG	IBM	wipro
genpact	Moody's ANALYTICS	accenture	kotak Kotak Mahindra Bank
firstsource	HDFC BANK We understand your world	ICICI Bank	WNS
Deloitte.	BOSCH	EY Building a better working world	tcs
cult.fit	Directi Intelligent People. Uncommon Ideas.	RIPPLING	MindTickle
ORACLE	Honeywell	Infosys	IKEA

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

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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,
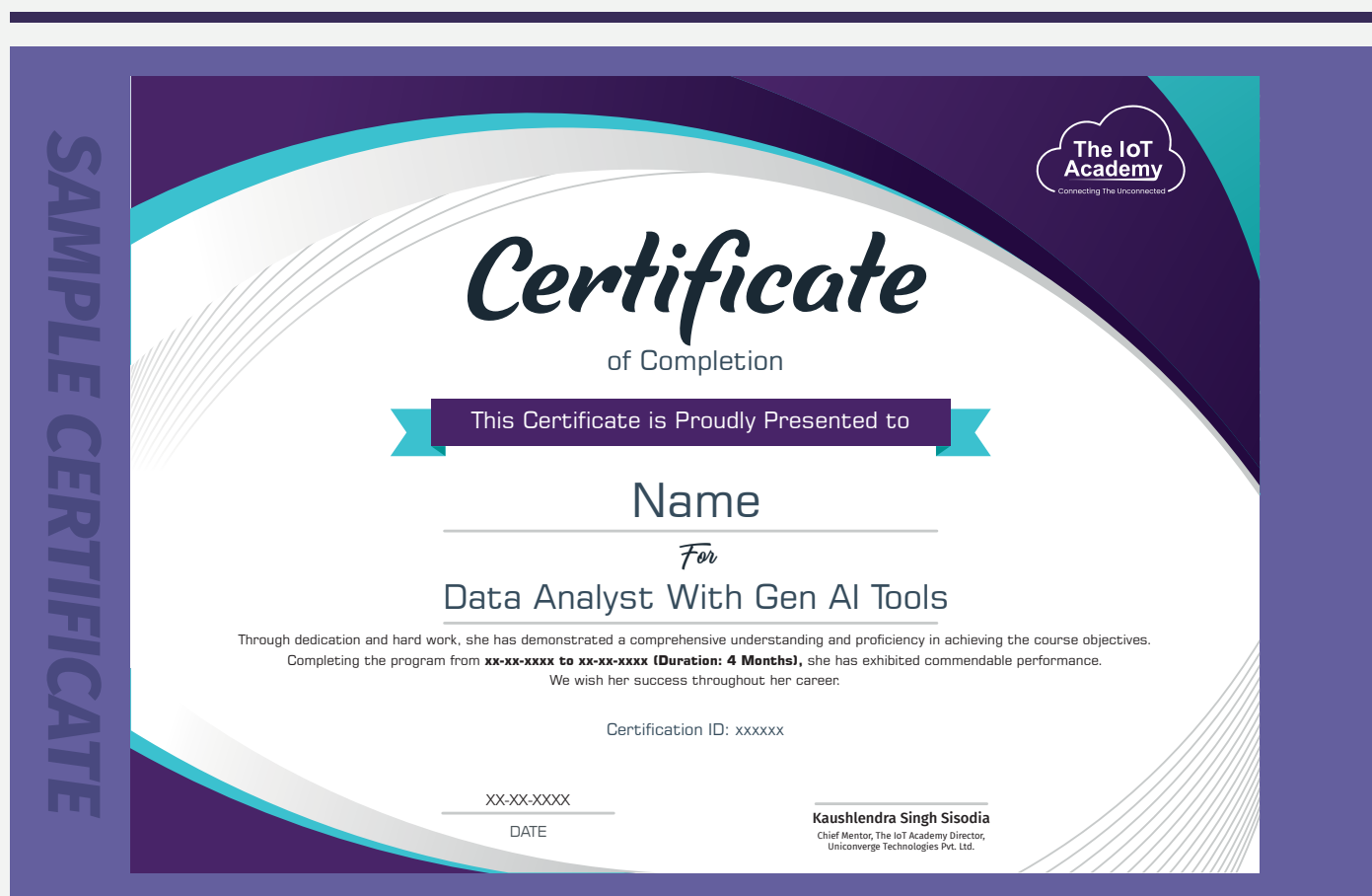**IIT Jodpur**

Ashwani Kumar

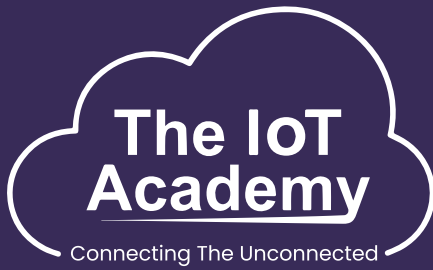AI Expert 20+ Years Of Experience Alumni Of
University Of Miami

Certification

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

This certificate will testify to your skills as an expert in **Data Analyst With Gen AI Tools.**
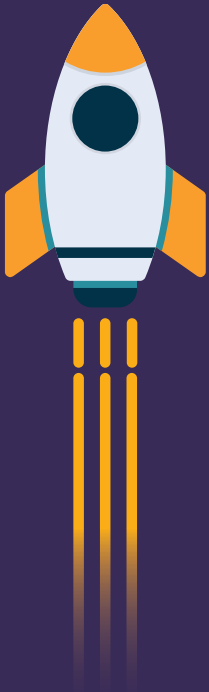
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Certificate
of Completion

This Certificate is Proudly Presented to

Name

For

Data Analyst With Gen AI Tools

Through dedication and hard work, she has demonstrated a comprehensive understanding and proficiency in achieving the course objectives. Completing the program from **xx-xx-xxxx to xx-xx-xxxx (Duration: 4 Months),** she has exhibited commendable performance. We wish her success throughout her career.

Certification ID: xxxxxx

XX-XX-XXXX
DATE

Kaushlendra Singh Sisodia
Chief Mentor, The IoT Academy Director,
Uniconverge Technologies Pvt. Ltd.

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THANK YOU!

Data Analyst
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By The IoT Academy