INSAID

**E&ICT Academy
IIT Guwahati**

Certificate in
Data Analytics

3 Months | Online Instructor Led

Improve your career prospects by gaining expertise in
Data Analysis, Data Visualization and EDA.

Why Certificate in Data Analytics by E&ICT IIT Guwahati

E&ICT IITG

Get certified from Top Tier-1 Institution

Top Rank

Ranked among India's Best

Top 3

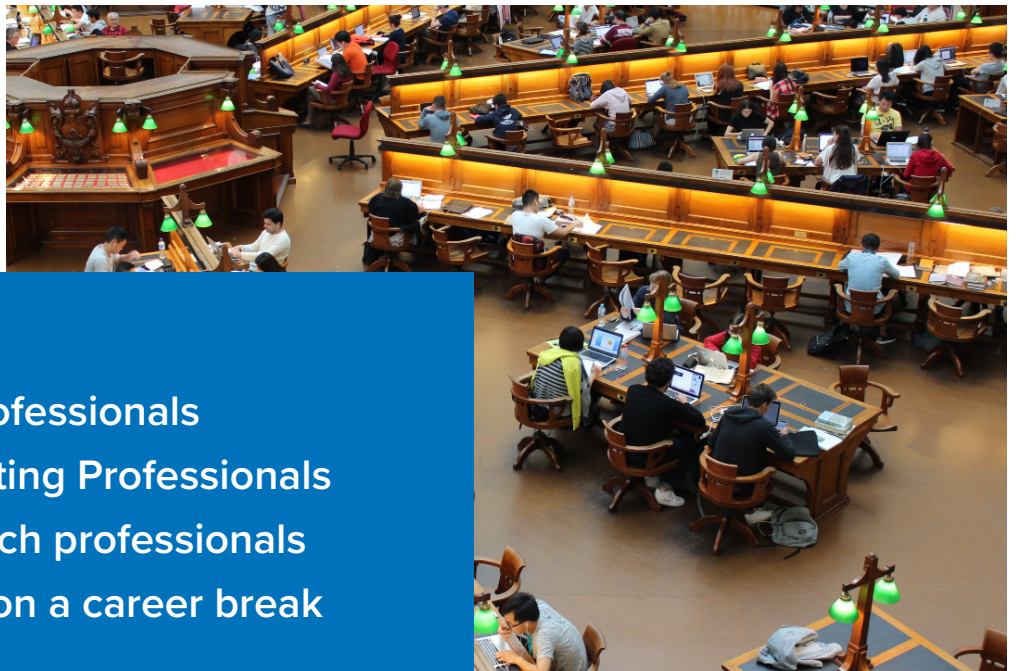trending careers in 2022 (#3 Data Analytics)

1 Million

Data Analytics opportunities globally

Who should Enroll in this Program

- Engineers
- Project Managers
- Consultants
- Software Engineers
- Teachers

- Associates
- Operations Professionals
- Sales & Marketing Professionals
- Non IT/Non Tech professionals
- Professionals on a career break

Program Highlights
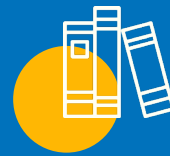
Certification
Get Certified by E&ICT
Academy, IIT Guwahati

3 Months
Weekend Classes

Faculty
Learn from the top industry
professionals

20+
Real business use cases

LIVE
Instructor led Training

Placements
100% career assistance

Master 5+ Data Analytics Tools...

python™

NumPy

pandas

seaborn

matplotlib

plotly

Program Syllabus

Term 1: Data Analysis with Python

Module 1 - Data Science Fundamentals

- Thought Experiment: Data Science from a layman's perspective
- Brief intro to Data Science
- How companies use Data Science
- Overview of Data Science project lifecycle
- Walkthrough of data types and data challenges

Module 2 - Recap: Python for Data Science

- In-class quiz for Python Basics
- Common Python concepts and sample questions
- Variable, Inbuilt datatypes, functions, modules and Packages
- File operations and error handling

Module 3 - Recap: Statistics for Data Science

- In-class quiz for Descriptive Statistics
- Common charts used
- In-class quiz for Inferential Statistics
- Probability, Central Limit Theorem, Normal Distribution & Hypothesis testing

Module 4 - Data Operations with Numpy

- Introduction to Numpy Arrays
- How to apply mathematical operations in Numpy
- Array manipulation using Numpy
- Broadcast values across Arrays using Numpy

Module 5 - Data Manipulation with Pandas

- Types of Data Structures in Pandas
- Clean data using Pandas
- Manipulating data in Pandas
- How to deal with missing values
- Hands-on: Implement Numpy arrays and Pandas Dataframes

Program Syllabus Cont.

Term 2: Data Visualization Techniques

Module 6 - Introduction to Data Visualization

- Brief introduction to Data Visualization
- Advantages and Applications of Data Visualization.
- Univariate statistical charts
- Bivariate statistical charts
- Multivariate statistical charts

Module 7 - Data Visualization using Matplotlib

- Introduction to Python's Data Visualization library - Matplotlib
- Basic usage of Matplotlib
- Using matplotlib to plot statistical charts
- Labelling the plots using matplotlib

Module 8 - Hands-on Pandas for Rapid Visualization

- Understanding role of product management
- Defining product vision & strategy
- Identifying key stakeholders & managing expectations

Module 9 - Seaborn for Data Visualization

- Seaborn Data Visualization library - Introduction
- Importing and setting up seaborn
- Using seaborn to plot different statistical charts
- Adding details to seaborn charts using matplotlib

Real World Business Use Cases

Program Syllabus Cont.

Term 3: EDA & Data Storytelling

Module 10 - Introduction to Exploratory Data Analysis

- Introduction to Exploratory Data Analysis (EDA) steps
- Purpose of EDA
- Advantages of EDA
- Applications of EDA

Module 11 - EDA Framework Deep Dive

- Framework for Scientific Exploration
- Case study: Perform EDA to explore survival using the Titanic dataset
- Apply the EDA framework on a real-world dataset.
- Generate insights and create a story around them.

Module 12 -Scientific Exploration of Industry Data - I & II

- Case study: Perform EDA to explore Online Retail dataset
- Implement the EDA steps and framework in the retail domain.
- Case study: Analyze mental health of IT professionals
- Implement the EDA steps and framework on healthcare in industries.

Module 13 - Student Presentations & Insight Delivery

- Student hosted project delivery sessions.
- Sessions coordinated by the instructor.
- Storytelling using generated insights.
- Best-practices for Data Visualization and Insight Delivery.

Minor Capstone Project

In a simulated environment, you get to work with a major Telecom company that seeks help from your team of Data Scientists to resolve a major marketing hurdle. Get a near real world exposure of working on industry problems within data science teams.

World Class Learning Experience

Experience a dynamic and engaging environment that inspires and challenges you to think critically. Become a worldclass Data Analytics through hands-on learning, collaboration, and interaction with experts in the field.

Live Classes
Online Interactive

Top Faculty
Industry Experts

Lifetime
access to study material

PowerBI
Data Empowered Insights

SQL
Unleash Data Potential

Leadership
Talks with experts

Career Support with 8 Powerful Sessions

Upon enrolling in the program, you will have access to INSAID Career Support module. This module includes comprehensive career development sessions aimed at enhancing your job profile and helping you excel in your interviews.

RESUME PREP

We'll help you build a sharp Data Analytics Resume.

1-ON-1 CAREER COUNSELLING

Get a dedicated career coach for you!

SIMULATED MOCK INTERVIEWS

Participate in mock interviews and be prepared.

DS INTERVIEW RESOURCES

Get access to 2023 Data Analytics interview resources.

The Career Services provided by INSAID are intended to empower you to actively manage your career and are not a promise of employment.

Key Statistics

3 months
Comprehensive Learning

45+
Hours of Live Classes

12+
Modules

5+
Tools & Frameworks

8
Career Assistance Sessions

Get Certified from India's Premier Institution

INSAID

Electronics & ICT Academy
Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India

Indian Institute of Technology, Guwahati

Certificate Of Completion

This is to certify that

Name

has successfully completed the Certificate in

Data Analytics

organized by **Electronics & ICT Academy Indian Institute of Technology, Guwahati**
in association with **INSAID** held from _____ to _____

CERTIFICATE ID: 46121654HHFG

Dr. Gaurav Trivedi
Principal Investigator
Electronics & ICT Academy
IIT, Guwahati

Manvender Singh
Director, INSAID

This is an online certification programme conducted jointly by E&ICT Academy IIT Guwahati and INSAID towards upskilling.

Learn from India's Top Data Science Industry Experts

Principal Investigator

E & ICT Academy
IIT Guwahati

Sr. Faculty

INSAID

Sr. Faculty

INSAID

Sr. Faculty

INSAID

Data Science Consultant

Walmart

Lead Data Scientist

Jio

Data & Analytics Engagement Manager

Shell

Associate Director - Data Science

NOVARTIS

Success Stories
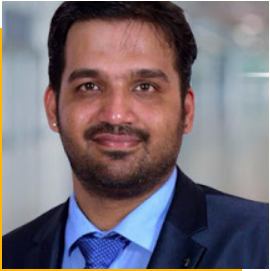
I would like to thank INSAID team for helping me develop discipline needed to become a Data Scientist.

- Anirudh Acharya, Data Scientist, DXC Technology

I would like to thank INSAID for wonderful support and beautiful journey. Learnt a lot and intend to use the same in my work.

- Sohamjeet Ganguly, Data Scientist, TCS

INSAID helps you through real-world applications of Data Science in your actual business or work.

- Foram Salva, Data Scientist, MYGLAMM

I found INSAID as the best when compared to other online programs. INSAID's curriculum is way ahead of other institutes.

- Siboli Mukherjee, Data Analyst, Vodafone Idea

Read more on blog.insaid.co

Program Snapshot

START DATE Check website for latest batch start dates

DURATION 3 Months

PROGRAM TERMS 3

ELIGIBILITY CRITERIA Total Years of Experience: **1+ Years**

Education: **Graduate** *(more than 50% score)*

WEEKLY SCHEDULE Online classes on weekends

Self practice/assignments on weekdays

PROGRAM FEE ₹ 50,000 + GST

Attractive EMI options available

Talk to your Learning Advisor

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I E & C I T
IIT Guwahati

in association with

INSAID
INTERNATIONAL SCHOOL OF AI AND DATA SCIENCE

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