INSAID | E&ICT Academy IIT Guwahati

Executive Program in
Data Science & AI

10 Months | Online Instructor Led

Improve your career prospects by gaining expertise in
Data Science, Machine Learning, and Artificial Intelligence.

Why Executive Program in Data Science & AI by E&ICT IIT Guwahati

E&ICT IITG

Get certified from
Top Tier-1 Institution

Top Rank

Ranked among India's
Best

Top 2

trending careers in 2022
(#2 Artificial Intelligence)

2.5 Million

Data Science
opportunities globally

Who should Enroll in this Program

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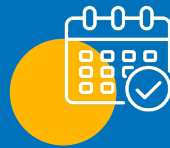- Software Engineers
- Teachers

- 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

10 Months
Weekend Classes

Campus Immersion
2-Day Campus Immersion at
IIT Guwahati*
(Depends on the availability of resources)

Faculty
Learn from the top industry
professionals

LIVE
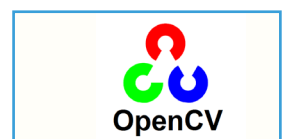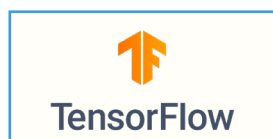Instructor led Training

Placements
100% career assistance

Master 15+ Data Science Tools...

python

NumPy

pandas

seaborn

matplotlib

plotly

scikit learn

SQL

Power BI

TensorFlow

K Keras

OpenCV

GENSIM
topic modelling for humans

colab

Program Syllabus

Term 1: Data Analysis with Python

Data Science Fundamentals

Recap: Python for Data Science

Recap: Statistics for Data Science

Data Operations with Numpy

Data Manipulation with Pandas

Term 2: Data Visualization Techniques

Introduction to Data Visualization

Data Visualization using Matplotlib

Hands-on Pandas for Rapid Visualization

EDA & Data Storytelling

Term 3: EDA & Data Storytelling

Introduction to Exploratory Data Analysis

EDA Framework Deep Dive

Scientific Exploration of Industry Data - I & II

Student Presentations & Insight Delivery

Minor Capstone Project

In a simulated environment get to work with a major Telecom company that seeks help from your team of Data Scientists to resolve a major marketing hurdle in front of them. Get a near real world exposure of working on industry problems within data science teams to reach a common end goal of helping customers win.

Program Syllabus Cont.

Term 4: Machine Learning Foundation

Introduction to Machine Learning

Linear Regression

Logistic Regression

Model Evaluation Techniques

Term 5: Machine Learning Intermediate

Decision Trees

Random Forests

Dimentionality Reduction using PCA

Naive Bayes Classifier

Term 6: Machine Learning Advanced

KNN (K- Nearest neighbors)

K-means Clustering

Ensemble Learning

Optimization

Major Capstone Project

Experience a real world simulation of a company problem that needs to be solved using Data Science and Machine Learning. Work with a team of Data Scientists who are working towards solving issues for a company in trouble.

Program Syllabus Cont.

Term 7: Basics of AI and Deep Learning

- Introduction to Artificial Intelligence

- Introduction to Deep Learning

- Components affecting Deep Learning Models

- Deep Learning Model Practical with Tensorflow and Keras

Term 8: Computer Vision (Opt either CV or NLP)

- Intro to Convolutional Neural Networks

- Decoding Image Components

- Identifying MNIST using CNN

- Preprocessing Image Data to apply CNN

Term 8: Specialization in CV (Opt either CV or NLP)

- Transfer Learning

- Object Detection using CNN based Algorithms - I

- Object Detection using CNN based Algorithms - II

- Instance Segmentation in Images

Term 9: Natural Language Processing (Opt either CV or NLP)

- Introduction to NLP & Word Vectors

- Decoding a Textual Data

- NLP using Recurrent Neural Networks (RNN)

- NLP using Memory Alterations

Program Syllabus Cont.

Term 9: Specialization in NLP (Opt either CV or NLP)

Teach Machines to Generate New Textual Data (Language Modeling)

Language Translation - English to Spanish using Seq2Seq Models

Techniques to Enhance Seq2Seq Models (Attention Mechanism)

Advanced NLP using BERT

AI Capstone Project

In this ever evolving world, solving complex problems get easier using AI. In this capstone project you will be an AI expert who is helping a hypothetical company resolve some major challenges it faces by using AI. Get a chance to work with a team of AI specialists and a simulated environment to help you relate to real world challenges companies face regularly.

Real World Business Use Cases

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

Campus
Immersion

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 Science 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 Science 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

10 months
Comprehensive Learning

160+
Hours of Live Classes

9
Terms

15+
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 Executive Program in

Data Science & Artificial Intelligence

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

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

CERTIFICATE ID: 46121 6SAHHFG

Manvender Singh
Director, INSAID

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

Why INSAID

"INSAID's Data Science program gives in-depth knowledge and practical insights at an affordable value. The instructors at INSAID have played a vital role in shaping my career, and I'm really thankful to the entire team for that."

- Priyanki Das, Data Science Engineer, CXsphere

Learn from India's Top Data Science Industry Experts

Principal Investigator

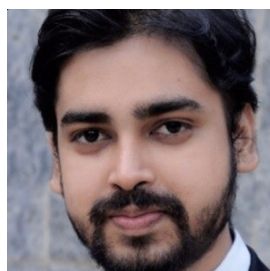E & ICT Academy
IIT Guwahati

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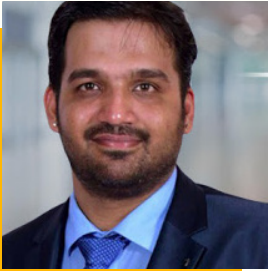
I would like to thank INSAID team for helping me develop discipline needed to become a Data Scientist.

- Anirudh Acharya, Data Scientist, DXC Technology

INSAID helped me a lot to understand statistics, the different nuances, and terminologies of statistics, and how to deal with data.

- Debaritra Chatterjee, Data Engineer, Exponentia.ai

INSAID program helped me be very consistent in my journey. I loved how the course progressed from the very basics and touched upon the important topics

- Radhika Mirani, Data Analyst, Tiger Analytics

INSAID started teaching everything from scratch in a step-by-step manner. The faculty members, assignments, and the capstone project were very helpful. INSAID has helped me fulfill my dream.

- Arun Kumar, Data Scientist, FinTech Domain

Read more on blog.insaid.co

Program Snapshot

START DATE   Check website for latest batch start dates

DURATION   10 Months

PROGRAM TERMS   9 Terms

ELIGIBILITY CRITERIA   Total Years of Experience: **3+ Years**

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

WEEKLY SCHEDULE   Online classes on weekends

                            Self practice/assignments on weekdays

PROGRAM FEE   ₹ 2,00,000 + GST

                            Scholarships & attractive EMI options available

Talk to your Learning Advisor

📞 +91 96258 11095

IIT Guwahati

in association with

INSAID
INTERNATIONAL SCHOOL OF AI AND DATA SCIENCE

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🌐 www.insaid.co