Unncap

EXECUTIVE PROGRAM IN

DATA SCIENCE &
ARTIFICIAL INTELLIGENCE

in collaboration with

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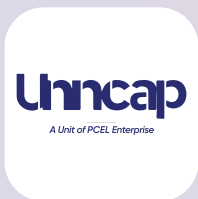### Indian Institute of Technology Guwahati
An Initiative of Ministry of Electronics & Information Technology(Meity)

E & C T
IIT Guwahati

E&ICT Academy

IIT Guwahati

Electronics & ICT Academy Indian Institute of Technology Guwahati (IIT Guwahati). As an initiative of Ministry of Electronics & Information Technology (MeitY), the Academy was setup at IIT Guwahati under the scheme of "Financial Assistance for setting up Electronics and ICT Academies". On 26 March, 2015 the project started at IIT Guwahati and the Academy was inaugurated by Prime Minister Shri. Narendra Modi on 19 January, 2016.The objective of the Academy is to provide skill training to the Faculty Members (Engineering & Non-engineering) in the area of recent trends in engineering & ICT application.

The Academy is designing specialised modules for imparting quality training for enhancing employability and capacity building in the area of Electronics & ICT. In the past 7 years the Academy has successfully conducted 400+ Programme through conventional classroom teaching and NKN/virtual classroom mode in different Institute/University of North Eastern States in particular and few in other states of India. Till date the Academy has successful trained 20000+ participants. The Academy has also signed MoU with Institutes/Universities for hosting the programmes and for conducting hands-on session the Academy collaborated with Industries as Training/Industry Partners. The Academy is also offering online Advance Certification Course in the area of Data Science, Artificial Intelligence & Machine Learning, Big Data, Cloud Computing, Full Stack, UI/UX and VLSI Design and trained 2000+ graduates and working professionals. The Academy has also delivered training to 140+ Assam Police and Indian Navy official on cybercrime concepts and Data Science.

UNNCAP Edusense Private Limited

Unncap is not just another educational platform; we are a community dedicated to fostering intellectual curiosity, critical thinking, and lifelong learning. We understand that education is the key to personal growth, professional success, and societal advancement. That's why we've created a dynamic online learning environment where students of all ages and backgrounds can discover new passions, acquire valuable skills, and achieve their academic and career goals.

It was in the second half of FY 2023-24, that the Management decided to segregate its Learning & Development Wing and PCEL to focus on inhouse Training and decided to diversify into the arena of Skilled Based Job Oriented Training to students, which led to the genesis of a subsidiary company aimed at unlocking the potential of freshers and professionals. We focus on providing opportunities for individuals to enhance their productivity and deliverables by keeping pace with new technologies and skilling opportunities.

About the Partnership:

Unncap, E&ICT Academy IIT Guwahati, and industry veterans have jointly collaborated to create the Executive Program in Data Science & Artificial Intelligence to prepare for the future of Data Science & AI .

Dr. Gaurav Trivedi
Principal Investigator, E&ICT Academy, IITG

"Today, the amount of data being collected is more than ever before. It's hard to know what to do with all of it, what's important, and how to manage it. To help you learn how to use the latest technology to work with data, we at E&ICT Academy, IITG, along with Unncap, have created a new Advanced Certification program in Data Science and AI."

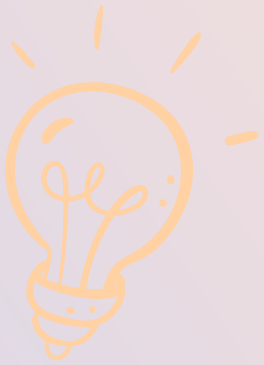## Purvi Manish Mathur
Director, Unncap Edusense Pvt Ltd

"Unncap, a company which aimed at unlocking the potential of freshers and professionals by providing them opportunities to enhance their productivity and deliverables by keeping pace with new technologies and skilling opportunities, has now collaborated with the prestigious E&ICT Academy, IIT Guwahati which undoubtedly represents a transformative step in the educational landscape, blending academic rigor with innovative technology.

This collaboration aims to leverage the IIT's cutting-edge research and expertise with the EdTech company's dynamic platforms and digital tools. Together, we are confident that we can develop customized learning solutions that will cater to diverse student needs, enhancing accessibility and engagement.

Furthermore, this partnership could facilitate real-world projects and internships, bridging the gap between theoretical knowledge and practical application. Ultimately, this alliance not only aims to elevate educational standards but also prepares students to thrive in a rapidly evolving job market. Through shared resources and a commitment to innovation, they are poised to redefine how education is delivered and experienced."

$16B+

Indian Data Science Market Size

Importance of
Data Science & AI Program:

The Executive Program in Data Science & Artificial Intelligence is becoming increasingly critical in India's digital landscape, with the market projected to reach **$16 billion by 2025**. The country experienced a **62% increase** in data science job openings in 2023, driven by industries like e-commerce, finance, and healthcare. As businesses increasingly rely on data-driven insights, this program equips professionals with essential skills in data analysis, machine learning, and AI. **India's government is also investing in data initiatives, fostering innovation and growth in this field**, making this program highly relevant for aspiring data leaders.

Executive Program in
Data Science & AI

The Executive Program in Data Science & Artificial Intelligence aims to equip professionals with the essential skills required for the rapidly evolving digital landscape. Designed to address the increasing demand for data-driven insights across various industries, this program focuses on practical training and real-world applications. As the data science market in India is projected to reach $16 billion by 2025, professionals with expertise in data analysis, machine learning, and AI are in high demand.

This program offers a comprehensive curriculum that not only covers technical skills but also emphasizes understanding industry-specific requirements and National Occupational Standards (NOS). By integrating general education with specialized training, graduates will be well-prepared to make meaningful contributions to their organizations and the economy at large.

Participants will learn to analyze complex datasets, develop AI-driven solutions, and leverage predictive analytics to inform strategic decision-making. The course also encourages entrepreneurial thinking, enabling graduates to explore new opportunities in data science.

Upon completion, candidates will be equipped to pursue various roles in data science and AI, enhancing their employability and career prospects. Ultimately, the Executive Program in Data Science & Artificial Intelligence empowers individuals and contributes to India's growth by fostering a skilled workforce capable of navigating the complexities of the digital economy.

Key Highlights

In today's more-than-ever competitive world, every decision you make has an effect on your career. We understand the criticality of the opportunity and prepare the candidates with utmost confidence to make them the winners. Nowadays companies try contemporary ways to select a candidate. We know the gaps between academia and industries, what interviewers ask and what they get from candidates, and are able to fill up those gaps with our intensive program which includes:

Learning Path

1

Data Analysis with Python:

1.1 Data Science Fundamentals
1.2 Recap: Python for Data Science
1.3 Recap: Statistics for Data Science
1.4 Data Operations with Numpy
1.5 Data Manipulation with Pandas

2

Data Visualization Techniques:

2.1 Introduction to Data Visualization
2.2 Data Visualization using Matplotlib
2.3 Hands-on Pandas for Rapid Visualization
2.4 EDA & Data Storytelling

3

EDA & Data Storytelling:

3.1 Introduction to Exploratory Data Analysis
3.2 EDA Framework Deep Dive
3.3 Scientific Exploration of Industry Data - I & II
3.4 Student Presentations & Insight Delivery

4

Machine Learning Foundation:

4.1 Intro to ML
4.2 Linear Regression
4.3 Principal Component Analysis
4.4 K-means Clustering

5

Machine Learning Intermediate:

5.1 Naïve Bayes Classifier
5.2 Logistic Regression
5.3 KNN (K-Nearest neighbors)
5.4 Decision Tree

6

Machine Learning Advanced:

6.1 Ensemble Learning
6.2 Recommender System
6.3 Time Series Analysis
6.4 ML Model Optimization

7

Basics of AI and Deep Learning:

Module 1: Introduction to Artificial Intelligence
Module 2: Introduction to Deep Learning
Module 3: Components affecting Deep Learning Models
Module 3: Deep Learning Model Practical with Tensorflow and Keras

8

CV:

Module 1: Intro to Convolutional Neural Networks
Module 2: Decoding Image Components
Module 3: Identifying MNIST using CNN
Module 4: Preprocessing Image Data to apply CNN

9

NLP:

Module 1: Introduction to NLP & Word Vectors
Module 2: Decoding a Textual Data
Module 3: NLP using Recurrent Neural Networks (RNN)
Module 4: NLP using Memory Alterations

10

Specilization in CV:

Module 1: Transfer Learning
Module 2: Object Detection using CNN-based Algorithms - I
Module 3: Object Detection using CNN-based Algorithms - II
Module 4: Instance Segmentation in Images

11

Specilization in NLP:

Module 1: Teach Machines to Generate New Textual Data (Language Modeling)
Module 3: Language Translation - English to Spanish using Seq2Seq Models
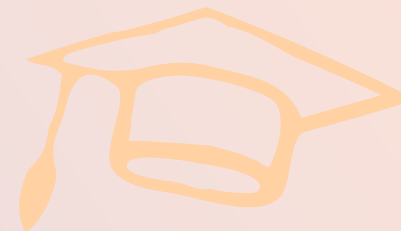Module 4: Techniques to Enhance Seq2Seq Models (Attention Mechanism)

12

Building AI Solution:

Module 1: Intro to Cloud Computing
Module 2: AI on Google AI Platform
Module 3: Building AI Pipeline
Module 4: Building AI Solution

Capstone Project:

In this module, you will gain in-depth knowledge and practical skills in data science with a focus on AI. The curriculum covers advanced AI techniques, including machine learning, deep learning, and natural language processing.This capstone project will enhance your ability to apply AI-driven solutions, equipping you to solve real-world problems across various industries.

Objectives

The main objectives of this scheme are given below:

- Develop a comprehensive curriculum that balances technical data science and AI skills with a strong foundation in mathematics, statistics, and computer science.

- Equip students with practical data science and AI skills, including data cleaning, data visualization, machine learning algorithms, deep learning techniques, natural language processing, and computer vision.

- Offer multiple exit points within the program to accommodate students' individual career goals and learning pace.

- Align the program with industry-recognized standards and certifications to ensure graduates are job-ready and meet the demands of the data science and AI fields.

- Foster global awareness and cultural sensitivity to prepare students for international collaboration and addressing data-driven and AI-related challenges in a diverse world.

- Establish clear pathways for students with relevant backgrounds, such as mathematics, statistics, or computer science, to enter the data science and AI program and advance their careers.

Why Choose Unncap

We Offer The Best Career:

Specialized Education: Unncap focuses on specialized products for providing certification and job placement support in the aviation industry, ensuring a targeted and effective learning experience.

1400+
Placements in 2024

200+
Hiring partners onboard

1.7 lac+
Highest monthly CTC offered

256+
Free Video

95%
Students placed in different companies

9/10
Students rating all over course curriculam

20k
Trained Students

Industry Expert Instructor

Industry expert instructors are the pinnacle of knowledge and experience in their fields. They offer practical insights that empower learners. As mentors, they provide guidance and support, helping students navigate career paths.

Up-to-Date Course Content

In today's rapidly evolving industries, staying relevant is paramount. Our courses, curated by industry experts, offer cutting-edge content that reflects the latest trends and innovations. With up-to-date course content, you'll be prepared to tackle challenges head-on.

Biggest Student Community

Welcome to our vibrant student community, where learning knows no bounds! Join thousands of passionate learners from around the globe in our expansive network. Whether you're seeking academic support, networking opportunities, or simply a place to connect with like-minded peers.

Career Assistance Services:

We are Proud of Our Students

UNNCAP has placed thousands of students in various top companies like:

accenture

Tech Mahindra

Walmart

Cognizant

IBM

amazon

xerox

ESPN

Microsoft

Myntra

Flipkart

Capgemini

NETFLIX

Adobe

Jio

OLA

hp

Students Success Stories:

Unncap
Rating

★ ★ ★ ★ ★ **4.9**

2,490+ Website Reviews

Priya Patel
Student

Unncap's Advanced Certification in Cyber Security is fantastic! The course content is engaging and relevant. I appreciate the flexibility of online learning and the platform's user-friendly interface. The course materials and assignments are well-structured. Highly recommend!

Rahul Sharma
Student

Loved the Executive Program in Data Science & Artificial Intelligence on unncap! The video tutorials were clear and engaging. The practice tests really helped prepare me for the interview. The course material was comprehensive and up-to-date. Highly recommend it to anyone.
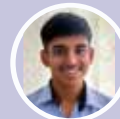

Nisha Singh
Student

The Aviation Cabin Crew Course offered by Unncap is top-notch. The faculty's industry experience and the practical training facilities are excellent. Highly recommended for those interested in Aviation Cabin Crew Course.

Neha Bisht
Student

Studying Airport Management & Customer Service Program at Unncap was a fantastic experience. The curriculum was comprehensive, covering everything from airport operations to airport management. Ideal for aspiring aviation professionals!

Aryan Kumar
Student

I enrolled in the German Language Proficiency course at Unncap to improve my communication skills. The course structure was well-planned, and the trainers were supportive. I noticed a significant improvement in my fluency and confidence.

Naman Sahu
Student

The Advanced Certification in Cyber Security Course on unncap is fantastic! The course content is engaging and relevant. I love how the platform makes learning interactive. The flexibility to study at my own pace is a huge plus. Highly recommend!

Eligibility

- **Graduation Students**

- **Basic knowledge of English**

- **Having a pleasing personality**

- **Selection will be on basis of personal interviews**
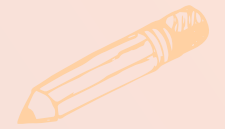
Prerequisites :

Graduate

Duration :

12 Months

Program Fee

Program Fee	₹2,25,000 + 18% GST

Contact Us

For further details, Please reach out to:

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