

Advanced Certification in

Applied Data Science, Machine Learning and Edge AI



Electronics & ICT Academy
Indian Institute of Technology Guwahati

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



इंटरकॉमिनेक्टि एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY

Brochure

Duration: 6 Months (140Hrs)

DS | ML | DL | Generative AI



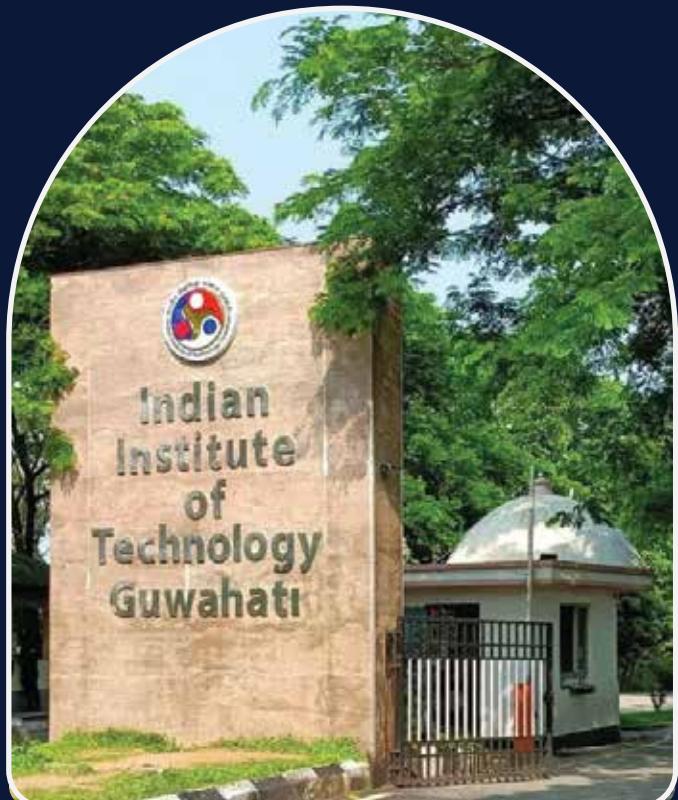
In Collaboration With



About The IIT Guwahati

Indian Institute of Technology Guwahati (IIT Guwahati), the sixth member of the IIT fraternity, was established in 1994. The institute began its academic programmes in 1995. Currently, it comprises eleven departments and three interdisciplinary academic centres, covering major disciplines in engineering, science, and humanities. IIT Guwahati offers BTech, BDes, MA, MDes, MTech, MSc, and PhD programmes.

Within a short span of time, IIT Guwahati has established world-class infrastructure and earned a strong academic reputation.



About The E&ICT Academy IIT Guwahati

Electronics and ICT Academy aims to provide specialized training to the faculties and working professionals, Arts, Commerce, Science colleges and polytechnic institutes by developing short term training programmes on fundamental and advanced topics in IT, Electronics & Communication, Product Design, Manufacturing. In addition, the Academy conducts specialized customized training programmes and research promotion workshops for corporate sector & educational institutions.





About The Program

Most of the technological advancements in the recent times you see around have an element of Data Science, Machine Learning in it. This 6 month Applied Data Science, Machine Learning & Edge AI course is uniquely designed by E&ICT Academy, IIT Guwahati, and industry leaders, to make you master exactly what the Data Science, Machine Learning jobs market demands. The objective of our state-of-the-art Applied Data Science, Machine Learning & Edge AI Certification Course is to perfectly prepare you for the Data Analytics, Data Science & Machine Learning job roles you aspire for. You will learn real-world Data Science, Machine Learning, Deep Learning & Data Analytics skills through multiple hands-on projects, transforming you into a sought after New Age DS, ML & DA Specialist.



Why Is DS, ML & Edge AI Important?

Data Science (DS), Machine Learning (ML), and Edge AI are transforming industries by enabling intelligent decision-making, automation, and real-time processing. DS extracts valuable insights from vast data, while ML powers predictive analytics and automation. Edge AI enhances efficiency by processing data locally on devices, reducing latency and reliance on cloud computing. This trio is vital for applications like smart cities, healthcare, IoT, and autonomous systems. Businesses leverage these technologies for faster, cost-effective, and secure operations. As demand grows, integrating DS, ML, and Edge AI ensures scalability, innovation, and competitive advantage in the digital era.

Virtual Personal Assistants

Social Media Services

Email Spam and Malware Filtering

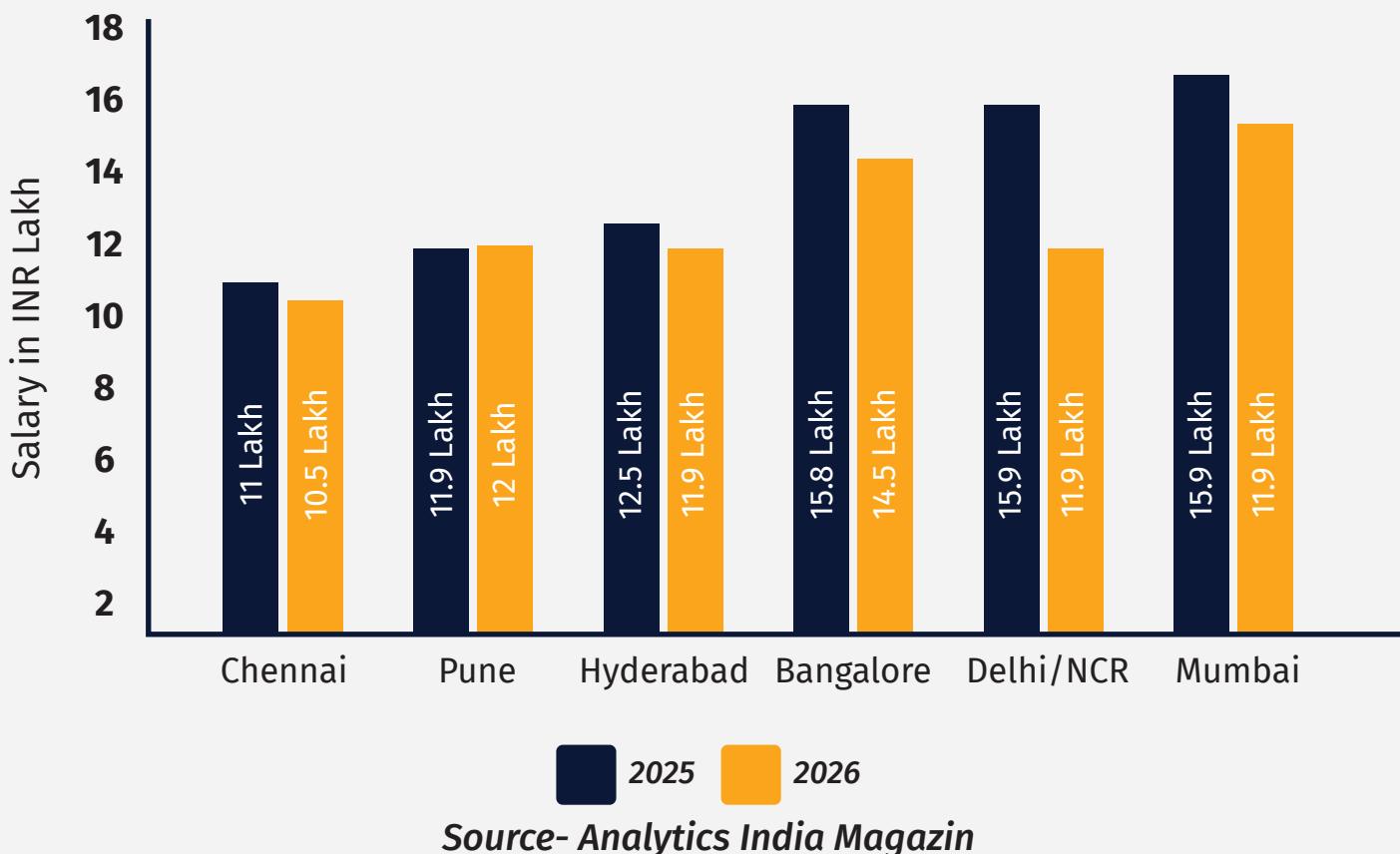
Search Engine Result Refining

Online Fraud Detection

Product Recommendations

Current Trends In DS & ML Job Market

As per Gartner, Data Science and Machine Learning 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).



PARTNERSHIP



About The Partnership

Advanced Certification In Applied Data Science, Machine Learning & Edge AI is offered jointly by The IoT Academy and E&ICT Academy, IIT Guwahati to prepare the future workforce in Data Science & Machine Learning.



Prof. Gaurav Trivedi

Principal Investigator
Associate Professor, IIT Guwahati

He is actively participating many Govt. of India's initiative e.g. Atmanirbhar Bharat. One of the major participation is in Semiconductor Production Initiative in India He has also set up an aquaponics project in Guwahati.



Kaushlendra Singh Sisodia

Director, UniConverge Technologies Pvt. Ltd.

Director at UniConverge Technologies Pvt Ltd working on (IoT, AI/ML, Industry 4.0, 4G/5G). Partner with E&ICT Academy, IIT Kanpur for IoT skill development. Employed at Ericsson, Sweden for 6.5 Years and shifted to Bangalore to build and support HSPA team. Complete end to end knowledge of WCDMA 3G system.

Program Highlights

This 6-month program is uniquely designed by E&ICT Academy, IIT Guwahati and industry leaders to help you learn exactly what the job market demands.

**Certification from E&ICT Academy,
IIT Guwahati**

**The IoT Academy provides 100%
Placement Assistance**

**Hands-on program and Industry-
Grade Capstone Projects**

**Industry-relevant skills for new age
DS & ML**

**Designed by leading academic and industry
experts along with IIT-Guwahati faculty**

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 professors from IITG 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 E&ICT Academy, IIT Guwahati.



**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

Program Pedagogy

Learn from one of the best faculty in India through live online sessions. While Academic Professors will help you learn data science concepts, industry experts will impart practical knowledge of data science, machine learning, deep learning, techniques through real-world projects.

Advanced Certification In Applied Data Science, Machine Learning & Edge AI

By E&ICT Academy, IIT Guwahati

6-Month Online Learning

Project Work

**Live Ask Expert Anything
Sessions & Code**

**Code Reviews & Personalized
Feedback**

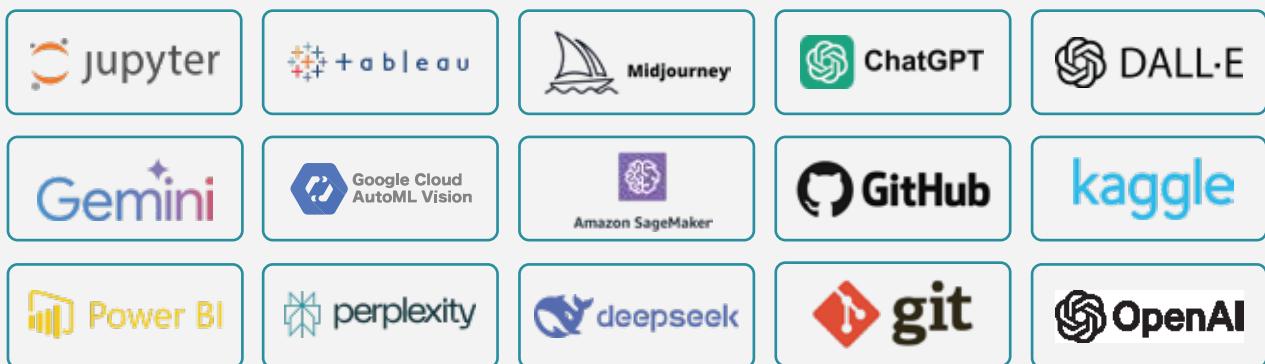
Doubt Resolution on LMS

Live Test, Home Assignments

8-10 Hours Per Week Live Instructor



Tools



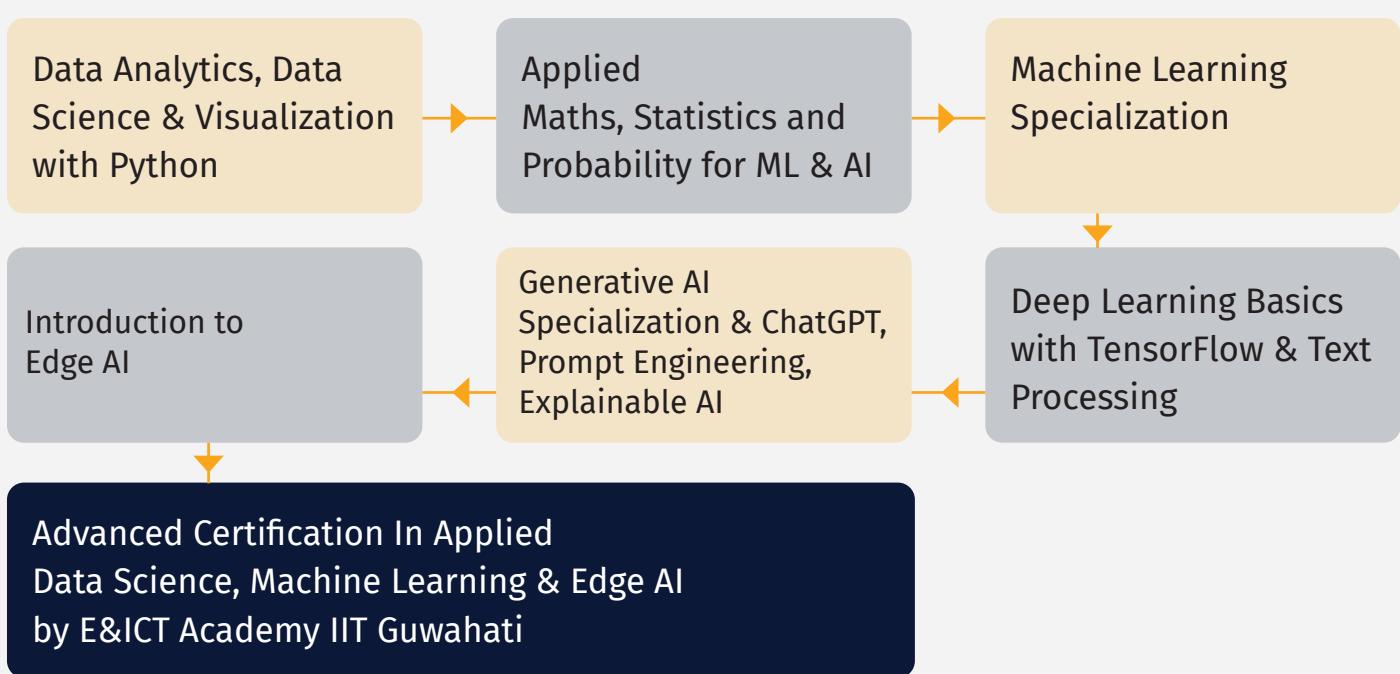
Languages



Frameworks



Learning Path



Capstone & Live Session Projects

The projects and assignments will help you accumulate real-world experience in different industries.

Automotive Industry

Educational Industry

Banking Sector

Entertainment Industry

Healthcare Industry

Manufacturing Segment

Retail Industry

Production industry

Finance Sector



Data Analytics, Data Science & Visualization with Python

Module-1: Python Basics

- ✓ What is Python
- ✓ Application of Python
- ✓ Why use Python for AI-ML Installation
Anaconda/Other Idle
- ✓ Python Tokens
- ✓ Data Types in Python
- ✓ Conditional Statement
- ✓ Loops in Python
- ✓ Functions in Python
- ✓ Advance Functions
- ✓ File Handling
- ✓ Mini Project

Module-2: Intro to Git & Github and Kaggle

- ✓ Git and GitHub
- ✓ kaggle

Module-3: Python NumPy & Pandas

- ✓ Introduction to NumPy
- ✓ Exploring a NumPy Array
- ✓ Indexing & Slicing a NumPy Array
- ✓ Manipulating a NumPy Array
- ✓ Performing Mathematical & Statistical Functions using NumPy
- ✓ Performing Linear Algebra Operations using NumPy
- ✓ Introduction to Pandas
- ✓ Exploring Pandas Series
- ✓ Introduction to Pandas DataFrame
- ✓ Importing & Exporting Data
- ✓ Implementing basic DataFrame functionalities
- ✓ Exploring Descriptive Statistics with Pandas
- ✓ Mini Project

Module-4: R Language Essentials

- ✓ Fundamentals of R
- ✓ Vectors & control statements
- ✓ Functions in R
- ✓ Matrices & strings
- ✓ Lists & arrays in R
- ✓ Data visualization in R

Program Curriculum

Modules-5: Exploratory Data Analysis (EDA)

- ✓ Data Types
- ✓ Dispersion & Skewness
- ✓ Data imputation
- ✓ Data Pre-processing
- ✓ Data Cleaning
- ✓ Data Manipulation
- ✓ Advanced Manipulation
- ✓ **Mini Project**

Module-6: SQL For Data Analytics

- ✓ SQL Basic
- ✓ SQL Joins
- ✓ SQL Aggregations
- ✓ Subqueries and Temp Tables
- ✓ SQL Data Cleaning
- ✓ Window Functions
- ✓ **Mini Project**

Module-7: Data Analysis with Excel

- ✓ Key Formulas and Functions, Ranges and Tables
- ✓ Data Cleaning – Text Functions, Dates and Times
- ✓ Conditional Formatting, Sorting and Filtering
- ✓ Dashboard Creation
- ✓ Analysis with Pivot Tables
- ✓ Data Analysis in Excel – Trends and Patterns
- ✓ Data Visualization in Excel – Charts and Plots
- ✓ Functions in Python
- ✓ Advance Functions
- ✓ File Handling
- ✓ **Mini Project**

Module-8: Data Visualization with Python

- ✓ Why Data Visualization?
- ✓ Introduction to Data Visualization
- ✓ Libraries & Tools for Data Visualization in Python
- ✓ Static Data Visualization Using Seaborn
- ✓ Interactive Data Visualization Using Plotly Express
- ✓ Interactive Animations & Facet Plots

Program Curriculum

Module-9: Tableau for Business Intelligence

- ✓ Understanding Data
- ✓ Creating Your First visualization
- ✓ Tableau Calculations
- ✓ Formatting Visualizations
- ✓ Manipulating Data in Tableau
- ✓ Creating Dashboards AND Stories
- ✓ Distributing & Publishing Your Visualization
- ✓ **Mini Project**

Module-10: Visual Storytelling using Power BI

- ✓ Introduction To Power BI
- ✓ Creating Power BI Reports, Auto Filters
- ✓ Report Visualization And Properties
- ✓ Chart And Map Report Properties
- ✓ Hierarchies And Drildown Reports
- ✓ Power BI Deployment & Cloud
- ✓ Improving Power BI Reports And More...
- ✓ **Mini Project**

Capstone Project- 1 in Data Analytics

Applied Maths, Statistics and Probability for ML & AI

Module-1: Mathematics for Machine Learning & AI

- ✓ Linear Algebra
- ✓ Multi-variable Calculus
- ✓ Introduction to Calculus

Module-2: Statistics for Machine Learning & AI

- ✓ Applications of Statistics
- ✓ Sampling techniques
- ✓ Introduction to Statistics
- ✓ Descriptive Statistics
- ✓ Categories of Data
- ✓ Measure Used in Descriptive Statistics
- ✓ Basic Terminologies in Statistics
- ✓ Z-Scores

Module-3: Probability

- ✓ What is Probability?
- ✓ Random Variables
- ✓ Rules of probability
- ✓ Probability Distribution Functions
- ✓ Types of Probability
- ✓ Mini Project

Module-4: Inferential Statistics

- ✓ Introduction to Inferential Statistics
- ✓ One Sample Z test
- ✓ Hypothesis Testing
- ✓ One Sample T test
- ✓ Normal Distribution
- ✓ Independent Sample T test
- ✓ P-value
- ✓ Chi-square test
- ✓ One-tailed and Two-tailed tests
- ✓ ANOVA

Capstone Project- 2

Machine Learning Specialization

Module-1: Introduction to Machine Learning

- ✓ What is Machine Learning?
- ✓ Applications of Machine Learning
- ✓ Machine Learning in your daily life
- ✓ Machine Learning in Retail
- ✓ Steps Involved in Machine Learning

Module-2: Regression

- ✓ Introduction to Regression
- ✓ Linear Regression
- ✓ Evaluation Metrics in Regression Models
- ✓ Logistic Regression
- ✓ **Mini Project**

Module-3: Supervised Classification

- ✓ Why Use Classification?
- ✓ Application of Classification Algorithms
- ✓ Introduction to Classification
- ✓ Types of Classification Algorithms
- ✓ Classification: Decision Tree
- ✓ Classification: Random Forest
- ✓ ML in Banking & Finance - Benefits
- ✓ Classification: SVM
- ✓ Classification: KNN
- ✓ Classification: Naïve Bayes
- ✓ Evaluating Classification Models
- ✓ Model Optimization Techniques
- ✓ Model Boosting Techniques
- ✓ Introduction to PyCaret
- ✓ Dealing with Unbalanced Datasets
- ✓ **4 Mini Projects**

Program Curriculum

Module-4: Unsupervised Learning

- ✓ What is Unsupervised Learning?
- ✓ Application of Unsupervised Learning
- ✓ Introduction to Clustering
- ✓ Types of Clustering
- ✓ Partitioning Methods: K-means, DBSCAN, Spectral
- ✓ Hierarchical Methods: Hierarchical
- ✓ **2 Mini Projects**

Module 5 :- Dimension Reduction

- ✓ PCA
- ✓ Factor Analysis
- ✓ LDA
- ✓ **Mini Project**

Module-6: Association Rules Mining

- ✓ What are Association Rules?
- ✓ Association Rule Parameters
- ✓ A-priori Algorithm
- ✓ Market Basket Analysis

Module-7: Recommendation System

- ✓ What is a Recommendation System?
- ✓ Need for a Recommendation System
- ✓ Recommendation System Use Cases
- ✓ Applications of Recommendation System
- ✓ Types of Recommendation Systems
- ✓ Collaborative Filtering
- ✓ Content Based Filtering
- ✓ Matrix Factorization
- ✓ Pros and Cons of Collaborative Filtering
- ✓ Hybrid Recommender System
- ✓ **Mini Project**

Module-8: Time-series Forecasting

- ✓ Introduction to forecasting data
- ✓ Properties of Time Series data
- ✓ Features of Time Series data
- ✓ Markov Processes - Overview and Terminologies
- ✓ Naive, Average and Moving Average Forecasting
- ✓ Exponential Smoothing
- ✓ ARIMA Approach
- ✓ **Mini Project**

Program Curriculum

Module 09 - Machine Learning Model Deployment

- ✓ Overview of Machine Learning Models
- ✓ Machine Learning System Architecture
- ✓ Research Environment
- ✓ Packaging, Serving and Deploying the model
- ✓ Differential Testing And More...

Deep Learning Basics with TensorFlow & Text Processing

Module-1: Introduction to Deep Learning

- ✓ What is Deep Learning
- ✓ Curse of Dimensionality
- ✓ Machine Learning vs. Deep Learning
- ✓ Use Cases of Deep Learning
- ✓ Human Brain vs. Neural Network
- ✓ What is Perceptron?
- ✓ Learning Rate
- ✓ Epoch
- ✓ Batch Size

Module-2: Tensorflow 2.0 with Tensor Board

- ✓ Introduction to Tensorflow 2.x
- ✓ Installing Tensorflow 2.x
- ✓ Introduction to TensorBoard
- ✓ Defining Sequence model layers
- ✓ Activation Function
- ✓ Layer Types
- ✓ Model Compilation
- ✓ Model Optimizer
- ✓ Model Loss Function
- ✓ Model Training
- ✓ Digit Classification using Simple Neural Network in Tensorflow 2.x
- ✓ Mini Project

Module-3: Text Processing Methods

- ✓ Bag of Words
- ✓ Countvectorizer
- ✓ Term Frequency (TF)
- ✓ Inverse Document Frequency (IDF)
- ✓ Converting text to features and labels
- ✓ Multinomial Naive Bayes Classifier
- ✓ Leveraging Confusion Matrix Assignment
- ✓ Word Embeddings
- ✓ Word2Vec
- ✓ Mini Project

Program Curriculum

Generative AI Specialization & ChatGPT, Prompt Engineering, Explainable AI

Module-1: Introduction To Generative AI

- ✓ Introduction to Generative AI Models
- ✓ The Future of Generative AI
- ✓ Types of Generative AI Models
- ✓ Ethical Considerations in Generative AI Models & ChatGPT
- ✓ Popular Generative AI Models
- ✓ Benchmarking & Evaluating Models

Module-2: ChatGPT, Prompt Engineering, Explainable AI

- ✓ ChatGPT
- ✓ Fine-tuning ChatGPT
- ✓ Deploying and Scaling ChatGPT
- ✓ Maintaining ChatGPT
- ✓ Security and Privacy Considerations
- ✓ Monitoring and Debugging ChatGPT
- ✓ **Mini Project**

Explainable AI

Prompt Engineering

Advanced Prompt Engineering Techniques

Edge AI

Module-1: Edge AI

- ✓ Edge vs Cloud Computing
- ✓ Motivation behind Edge AI
- ✓ Edge AI applications
- ✓ Implementation process of Algorithms
- ✓ Inferences deployment on Edge

Major Capstone Project

Capstone Projects

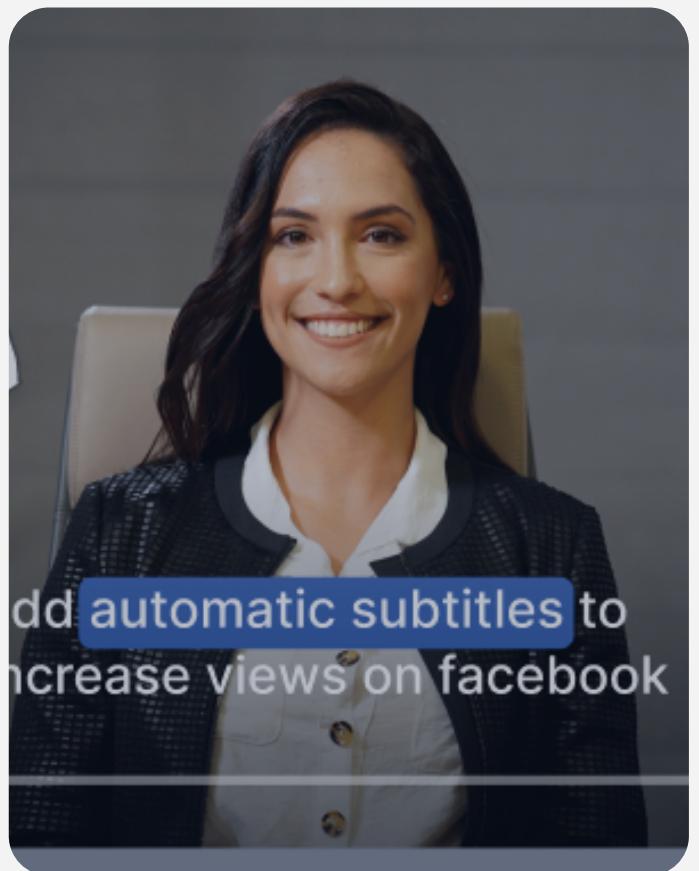
Industry projects will be a part of your Advanced Certification In Applied Data Science, Machine Learning & AI to consolidate your learning. Industry projects will ensure you have the real-world experience to start your career in DS, ML-AI.

- **10+ Essential Tools**
- **Designed by Industry Experts**
- **Get Real-world Experience**

Auto Image Captioning

Automatic image captioning is widely used by search engines to retrieve and show relevant search results to the users. For example - to categorize personal multimedia collections, for automatic product tagging in online catalogs, and other areas of business and researches. Use CNN and LSTM to create a model that can automatically add captions to the image.

Tools you will be using: OpenCV, Tensorflow2/ Keras, Numpy, Pandas, Matplotlib



Twitter Sentiment Analysis using Tweepy

Analyzing the tweets helps us in understanding the thoughts and sentiments of people over any popular topic. It helps us to understand what people are thinking about the trend. Here, as a part of this project, you will use Tweepy, Textblob, nltk, and other NLP libraries to analyze the sentiments from the Trending Twitter's tags.

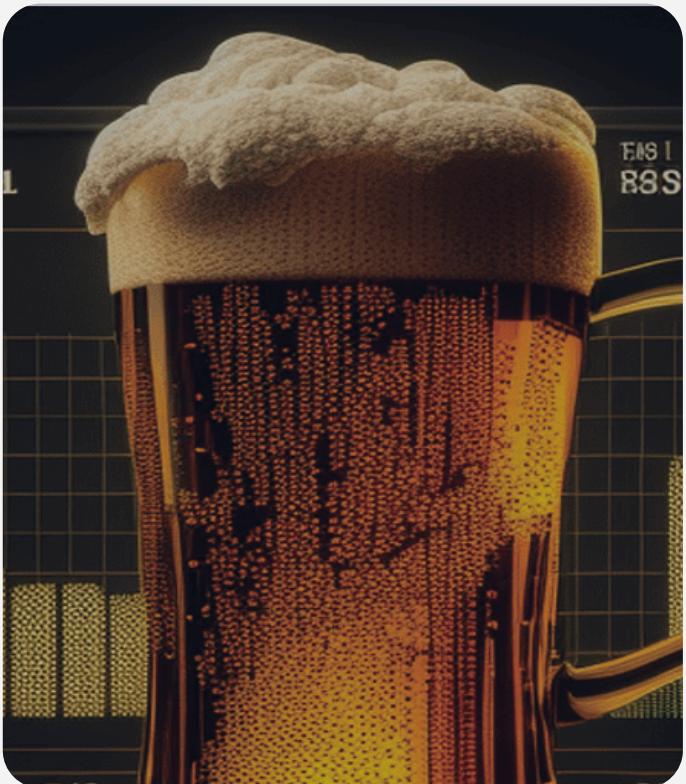
Tools you will be using: Tweepy, Textblob, NLTK



Building a RASA Based Chatbot

Rasa is a framework for developing AI-powered, industrial grade, powerful chatbots. The developers use it to create intent-based chatbots. In this project, we are going to understand some of the most important basic aspects of the Rasa framework and use RASA NLU and RASA CORE to build a conversational chatbot.

Tools you will be using: RASA NLU, RASA Core



Real-Time Age, Emotion and Gender Detection using CNN

Use CNN and OpenCV to create a model which would detect the person's age, emotion, and gender in real-time.

Tools you will be using: OpenCV, Tensorflow2/ Keras, Numpy, Pandas, Matplotlib



Resort Menu Prediction

Emerald Oyster is affected by the high cost of meals at multiple restaurants within the resort. To resolve this issue, they need a new menu and choices based on the economical condition of the customer. Your task will be to identify the economic class of the customer based on the data collected so that the board can resolve this with proper remodeling.

Tools you will be using: Pandas, SKLearn, Matplotlib, Seaborn, Numpy



Telecom Churn Prediction

A telecom company wants you to analyze its data, to keep its customers. You will be provided with the 'Telecom Churn' dataset. Use it to create a model to predict which customer will switch to other telecom service providers, based on the relevant customer data.

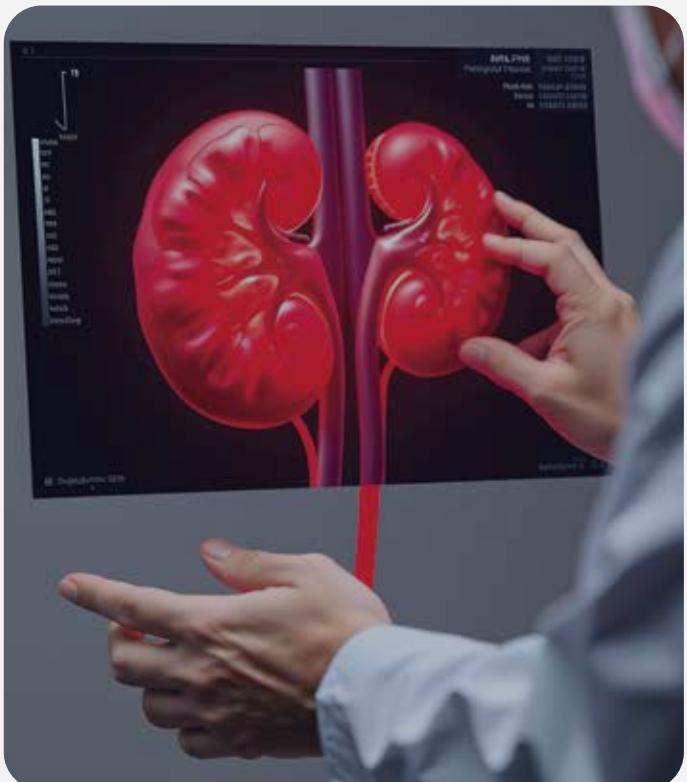
Tools you will be using: Pandas, Numpy, Seaborn, Matplotlib, SKLearn



Chronic Kidney Disease Prediction

Chronic kidney disease (CKD) is a covert disease. Accurate prediction of CKD progression overtime is necessary for reducing its costs and mortality rates. The dataset is taken over a 2-month period in India. It has 400 rows with 26 features like red blood cells, pedal edema, sugar, etc. Use this to classify whether a patient has chronic kidney disease.

Tools you will be using: Pandas, SKLearn



Gnar Automobiles

Gnar Automobiles engages in the distribution and sale of automobiles and light commercial vehicles. The owner of the Gnar Automobiles deals with a number of distributors across countries in different origins. As every origin sends cars with various specifications. The owner wants to determine the origin of the cars based on the specifications of the cars to further increase business opportunities.

Tools you will be using: Pandas, Matplotlib, Numpy, mlxtend



Big Mart - Customer Segmentation

The data scientists at Big Mart have collected 2013 sales data of 1559 products across 10 stores in different cities. Big Mart CEO wants to understand the customer demographics and customer retention (Customer who can converge easily) so that the marketing team can market their products and services by conducting various strategies accordingly.

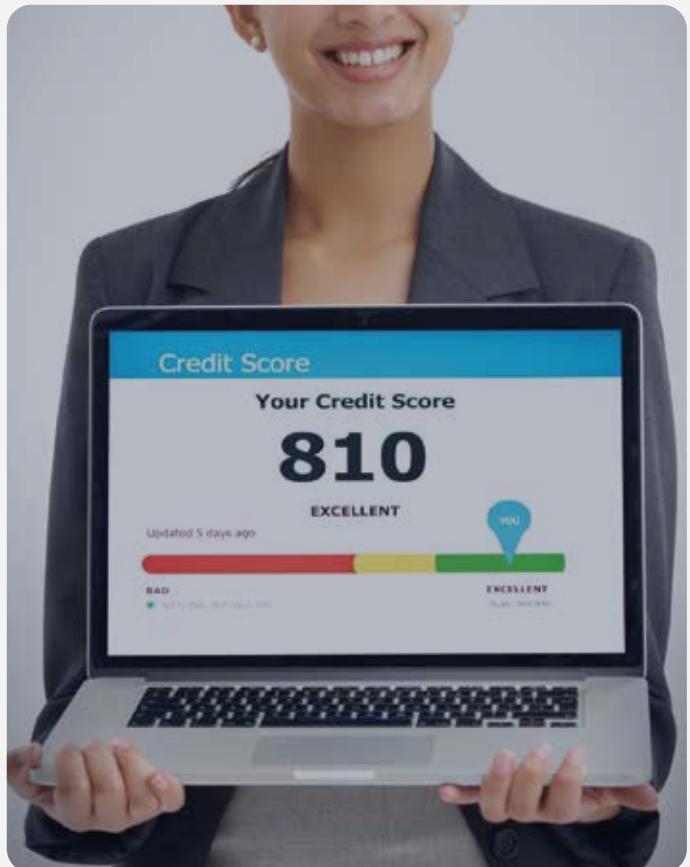
Tools you will be using: Pandas, scipy, Numpy



Credit Score Prediction

Sydney based Caltech bank plans a new loan scheme for its customers and wants to analyze its customer data to find out how the customer's earning is associated with their credit score. Use clustering methods to find the high credit score clusters of customers. It will summarize the existing loan scheme and help Caltech bank to decide about the new loan scheme.

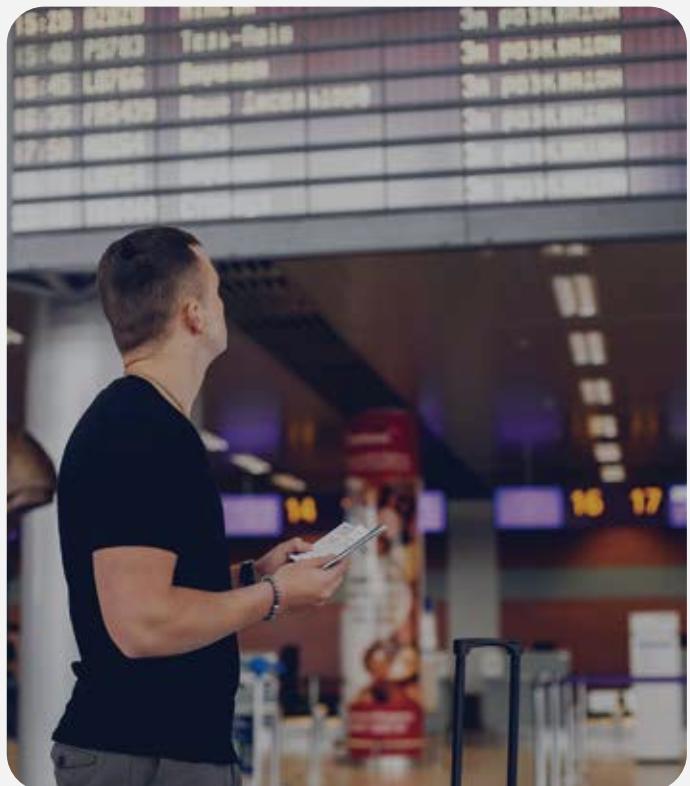
Tools you will be using: Pandas, scipy, Numpy



Forecast Air Passenger Traffic

An Airline called Star Air has the data of its passengers across months. The data is classified in date/time and the passengers travelling per month. Build a model to forecast the demand (passenger traffic) in Airplanes. You will learn to use Pandas, Scipy, Numpy with hands-on experience of other tools, features and libraries.

Tools you will be using: Pandas, scipy, Numpy



Housing Price Prediction

The dataset is collected from the 1990 California census containing data of one row per census group. The dataset has various demographics and details captured. Based on this data, we have to create a model using Pandas, Scipy, Numpy that can determine the housing price of the house based on the details provided.

Tools you will be using: Pandas, scipy, Numpy



Traffic Sign Classification using CNN in Tensorflow 2.0

Detection and recognition of traffic signs are crucial for the development of self- driving cars, which have a direct impact on driving behaviors. You will learn to build a CNN model using OpenCV, TensorFlow2, Keras, Numpy, Pandas, Matplotlib to detect and classify the traffic signals for new self-driving cars.

Tools you will be using: OpenCV, Tensorflow2/ Keras, Numpy, Pandas, Matplotlib



Analyze & Visualize Employee Attrition

Employee retention is one of the biggest metrics that a company should have in mind when thinking of growth. Employee attrition is caused when the total strength of the company is greatly reduced as more employees leave the company than expected. Uncover the factors that lead to employee attrition and explore the reasons as to why people are leaving the organization and predict whether an employee will leave the organization or not by creating a Web App using Streamlit that takes inputs from user's online.

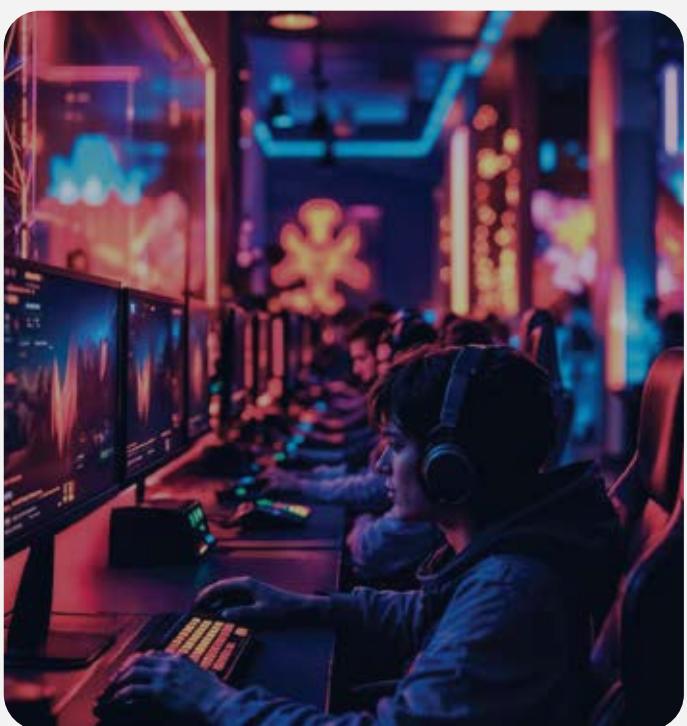
Tools you will be using: Sklearn, PyCaret, Streamlit, SHAP, Pandas-Profilng



Analyze & Visualize Video Games Sales

SRS Ltd. is a Korean and video game company headquartered in Seoul. You as a Data Scientist is required to analyze the trend in Global Sales according to the Genres on the Video Games Sales Dataset from 1980 & visualize the change in Net Sales of different publishers from the year 2005 to 2015.

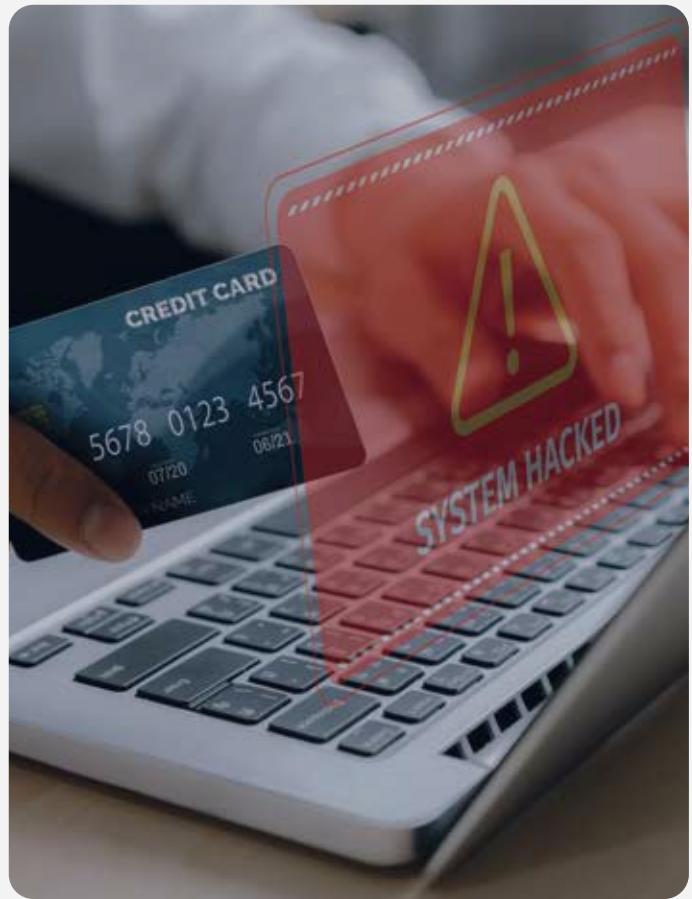
Tools you will be using: Plotly Express, Streamlit



Identify fraudulent credit card transactions

Credit card fraud happens when a fraudster or a thief steals your credit card or the information from that card to make unauthorized purchases in your name or take out cash advances using your account. Credit card companies such as Citibank, HSBC, and American Express need to recognize fraudulent credit card transactionso that customersare not charged for items that they did not purchase.

Tools you will be using: Sklearn, PyCaret, Streamlit, ELI5, Pandas-Profilng



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.

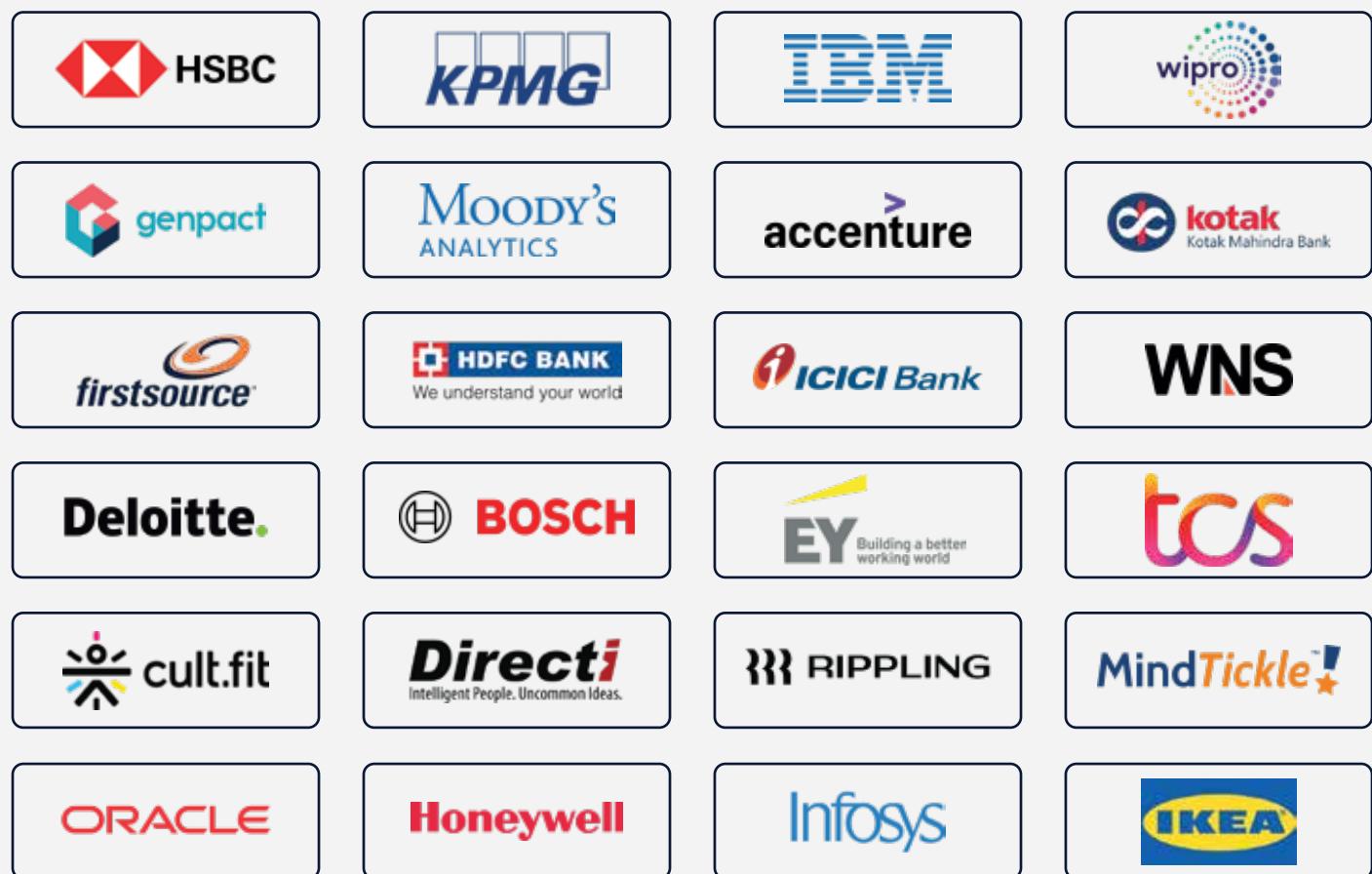
Profile Building Assistance

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:

- Data Analyst
- Associate Machine Learning Engineer
- Research Analyst

Mid-Level:

- Machine Learning Engineer
- Data Scientist
- Machine Learning Research Scientist

Senior-Level:

- Sr. Data Scientist
- Machine Learning Research Scientist
- Deep Learning Expert

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



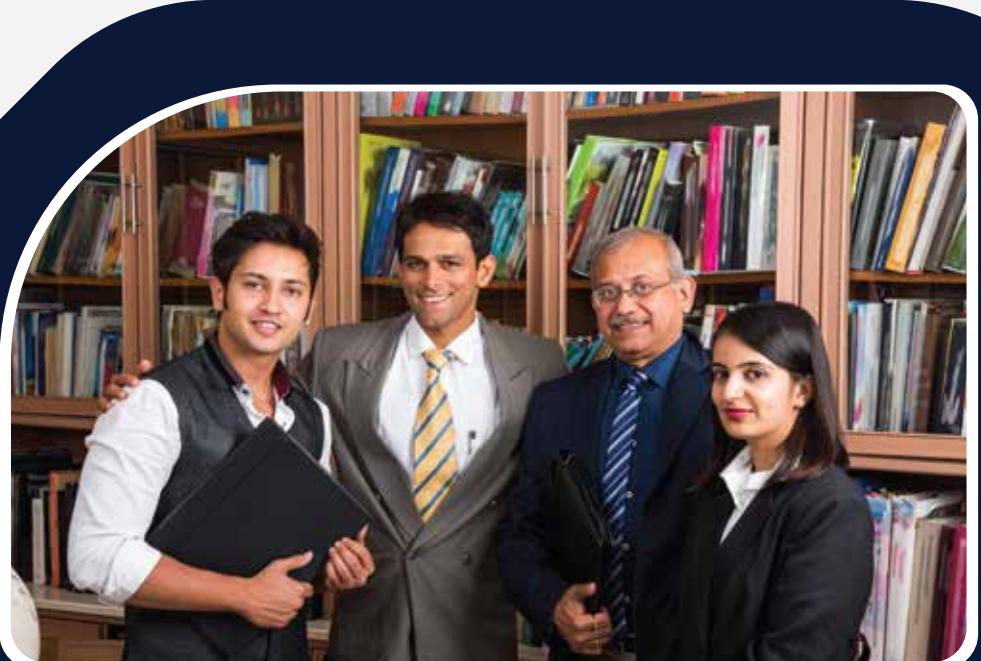
Prof. Sumit Kalra

Department Of Computer
Science & Engineering,
IIT Jodpur



Ashwani Kumar

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



Program Influencer

The best of academics and industry experts to give you a robust learning experience. We aim to give you a complete exposure to real-time and relevant industry applications of the concepts learned.



Mr. Anil Pandey

20+ Yrs Exp, Director of R&D
Protocol Stack Development at
Rohde & Schwarz MTC, UK,
IIT-Kanpur Alumnus



Dr. Ashwani Singh

18+ Yrs Exp, Schneider, Ph.D.
France Engineering, Innovation
Management, IIoT, Industry 4.0.



Mr. Rajiv Bajpai

20+ Yrs Exp, Apple (USA),
ex-Broadcom, ex-Samsung,
IIT-Kanpur Alumnus.



Mr. Tej Pratap Pandey

20+ Yrs Exp, COO at Mobiotics,
IIT Kanpur Alumnus



Mr. Manbhawan Prasad

20+ Yrs Exp, Product Manager at
Microsoft, Ireland EMCC Certified
Coach, IIT-Guwahati.



Mr. Ashish Srivastava

16+ Yrs Exp, Senior System
Designer, Algorithm and System,
LTE/5G Baseband at Ericsson,
Sweden



Mr. Deepak Singhal

20+ Yrs Exp, Enterprise Architect
Director at Capgemini, Speaker on
Cloud technologies

Success Stories

The best of academics and industry experts to give you a robust learning experience. We aim to give you a complete exposure to real-time and relevant industry applications of the concepts learnt.



Sunita Devi Arya

Placed In



Obtaining information from these industry insiders allows you to decipher the game's hidden codes, which will ensure your victory.

The IoT Academy exceeded my expectations and assisted me in obtaining my dream job at IKEA.



Ravi Teja

Placed In



Every part of the training was well-organized and provided just what I required. The professors were excellent, the mentors were helpful, and the course was well-designed to meet all of the student's needs.



Srividhya HK

Placed In



The IoT Academy assisted me in correctly channelling my energy, revising what I had learnt in college, and learning new things! Also, the industry training, which assisted me in getting a job at a reputed company.



G Shravan Kumar Reddy

Placed In



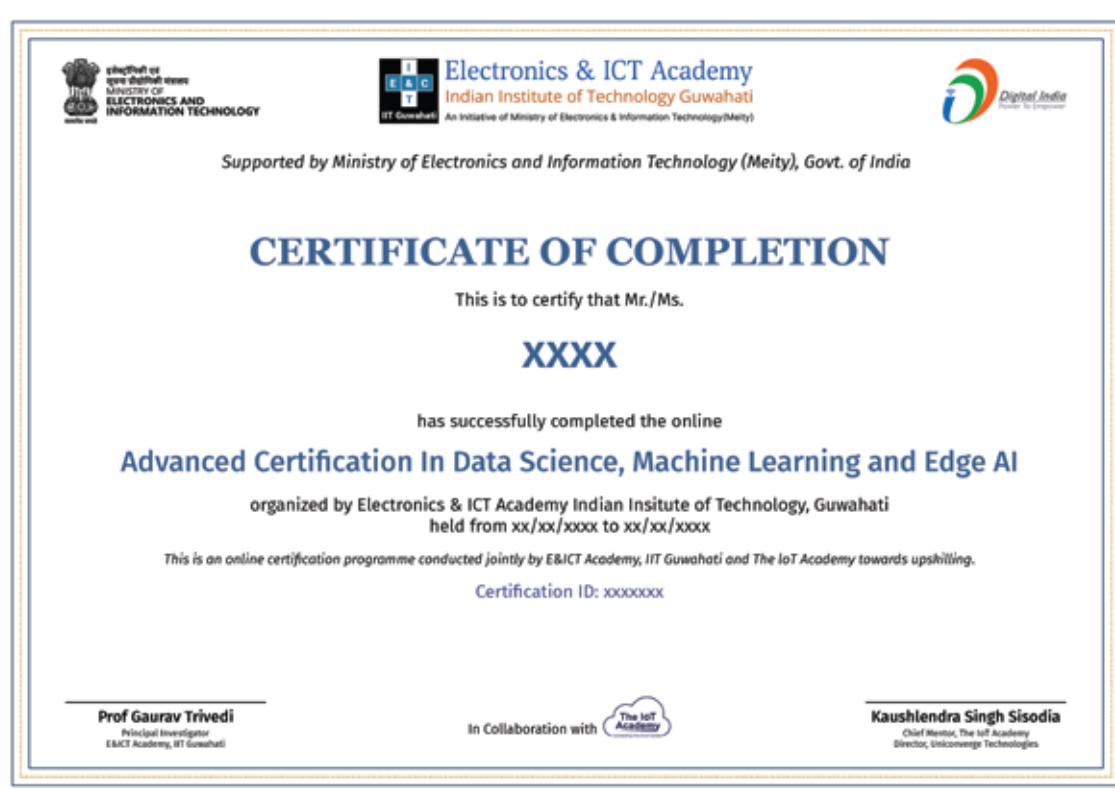
I wanted to improve my knowledge of AI and Machine Learning so that I could keep up with the newest trends and technology. The IoT Academy is the name I've chosen for myself. The IoT Academy Support staff and mentors were great help. "Highly recommended for people interested in learning about AI and Machine Learning."

Certification

Upon successfully completing this program, you'll earn Certification In **Applied Data Science, Machine Learning & Edge AI** that is co-branded by E&ICT Academy, IIT Guwahati as the Knowledge Partner.

This certificate will testify to your skills as an expert in **Applied Data Science, Machine Learning & Edge AI**.

SAMPLE CERTIFICATE



Program Eligibility Criteria

Those wishing to enrol in the Certification In Applied Data Science, Machine Learning & Edge AI By E&ICT Academy IIT Guwahati will be required to apply for admission.

For admission to the Advanced Certification In Applied Data Science, Machine Learning & Edge AI, candidates should have:

- Any Undergraduate Degree holder like BCA, B.Tech, B.E, B.Com etc with an average of 50% or higher marks.
- Basic understanding of programming concepts and mathematics. For candidates who do not know Python, we offer a free pre-program tutorial.
- Working Professionals with 2+ years of experience are preferred to apply for this program.

Application Process

The application process consists of four simple steps. An offer of admission will be made to the selected candidates and accepted by the candidates upon payment of the admission fee.

Online Application Form

Apply by filling a simple online application form. You will be required to provide personal, educational, and professional details. Once we receive your details, our Admission Head will reach out to take your candidature further.

Interview Process

Go through a screening call with the Admission Director's office who will gauge your passion and eligibility for the program.

Scholarship & Offer Letter

Apply for the scholarship (not mandatory) and take the test. An offer letter will be rolled out to the selected candidates.

Admission & Batch Allotment

Complete the admission and make a quick block payment formality with assistance from our loan partners, you will be given course credentials and your learning journey will begin!

CONTACT

THANK YOU!

Contact Details



Electronics & ICT Academy
Indian Institute of Technology Guwahati

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



इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY

Program Information

Advanced Certification In Applied Data Science,
Machine Learning & Edge AI

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