



राष्ट्रीय प्रौद्योगिकी संस्थान सिलचर
NATIONAL INSTITUTE OF
TECHNOLOGY SILCHAR

TWO-WEEK SELF-SPONSORED ONLINE STTP on “FOUNDATION OF MACHINE LEARNING TO DESIGN AI SYSTEM USING PYTHON” (VERSION 2.0)

— organized by —

CENTRE FOR AI AND ML FOR APPLICATIONS (CAIMLA)
NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR



```
import numpy as np
import pandas as pd
from sklearn.model_selection
import train_test_split
from sklearn.linear_model
import LogisticRegression
from sklearn.metrics
model = LogisticRegression()
model.fit(X_train, y_train)
```



DATE

From
25th July to
8th August 2026
(Break on Sunday)



LECTURE SCHEDULE

06.00 PM to
08.00 PM



MODE

Online
(Live Sessions)



A certificate
will be bestowed to
all the registered
participant



ORGANIZERS

- Prof. Dilip Kumar Baidya**
Director, NIT Silchar (Chief Patron)
- Dr Saroj Kr. Biswas** (Convener)
- Dr Kedar Nath Das** (Coordinator)
- Dr. Banani Basu** (Coordinator)
- Dr. Badal Soni** (Coordinator)
- Dr Ramanujam E.** (Coordinator)
- Dr. Suganya Devi K** (Coordinator)
- Dr. Malaya Dutta Borah** (Coordinator)
- Other members** (Organizing members)



LECTURE CONTENT

- **Basics of ML**
- **Data Pre-processing:** Handling Missing Values, Data Visualization and Data Exploration, Outlier Detection, Class Imbalance Problem, Feature Analysis, Data Normalization
- **Modeling & Evaluation:** Model Selection, Model Training, Model Evaluation
- **Regression:** Basics of Regression, Linear Regression, Polynomial Regression, Logistic Regression
- **Classification:** K- Nearest Neighbour, Decision Tree, Naïve Bayes, Support Vector Machine
- **Clustering:** Basics of Clustering, Hierarchical Clustering, K-Means, K-Medoids
- **Association Rule Mining:** Apriori Algorithm, Predictive Apriori Algorithm
- **Optimization:** Basic concepts and Evolutionary optimization
- **Case Study:** Design of Healthcare System using ML, NLP using ML
- **Hands-on:** Python basics for ML, Python Libraries for Machine Learning and DL: NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Classification using Python.



REGISTRATION FEE



Students

₹ 1000



Faculty members /
Industry persons

₹ 1500



REGISTRATION DEADLINE



24th July 2026



PAYMENT INSTRUCTIONS

Payment should be made directly through online payment SB Collect portal at State Bank of India (<https://www.onlinesbi.sbi>). Follow the Instructions given below for making your payments.

- Access <https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>
- Select Type of Category as “Educational Institutions”
- Select State as “Assam”
- Select the Name of the institution as “Online Fee collection account NIT Silchar”
- Select the payment category as “STTP_Foundation of ML to design AI System ...”
- Fill the necessary fields



IF YOU FACE ANY PROBLEM, CONTACT: 97881 53765 / 9508727987

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<https://forms.gle/naRnUsxvxF2289DP6>



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to Register!