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NH-16, Anakapalle – 531002, Visakhapatnam, A.P.
Website: www.diet.edu.in, 9963993229 E-mail; principal@diet.edu.in

Date: 8-03-2025

To
The Principal,
Dadi Institute of Engineering & Technology (A),
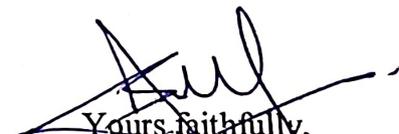Anakapalle,
Visakhapatnam-531002.

Sub: Approval to conduct Add on courses for III B.Tech Students-Reg,

Respected Sir,

As per the suggestions from Department of EEE to enrich the curriculum and to fill the curriculum gaps, it is proposed to conduct Addon Course for III B. Tech Students for the academic year 2024-2025. The following Machine Learning with Phyton in association with Infosys Spring Board course has been identified and the proposed schedule is from 10-03-2025 to 22-03-2025 the duration is 30 Hrs.

Hence, I request you to give permission to conduct the Addon course.

Thanking you,

Yours faithfully,
EEE Event Coordinator
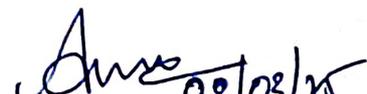
H.o.D, of EEE 08/03/25

(Dr Asne Gopalamma)

Head of the Dept.
Electrical & Electronics Engg.
Dadi Institute of Engg. Tech.
Anakapalle - 531 002

Permitted

PRINCIPAL

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Engineering & Technology
Autonomous
Anakapalle - 531 002

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CIRCULAR

Anakapalle
Dt:8-3-2025

As per the suggestions from Department of EEE of Dadi Institute of Engineering & Technology-Autonomous to enrich the curriculum and to fill the curriculum gaps, it is proposed to conduct Addon Course for III B. Tech Students (2022 Admitted batch) for the academic year 2024-25.

All the students are informed to choose and register for the Addon Course and attend the classes without fail. Certificate will be issued.

Tentative Schedule: 10-03-2025 to 22-03-2025

Duration: 30 Hours

Name of the Add on/ Certification Course

Machine Learning with Phyton in association with Infosys Spring Board

Faculty Coordinator:

Dr. S. Ramana Kumar Joga
Associate Professor, EEE Department
Dadi Institute of Engineering & Technology

H.o.D, of EEE

(Dr. ASVK Gopalarao)
Head of the Department
Electrical & Electronics Engg.
of Engg. Tech.
531 002

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NH-16, Anakapalle – 531002, Visakhapatnam, A.P.**

A Two-week Program on "Machine Learning with Python"

Organized by

Department of Electrical & Electronics Engineering

**Course Instructor:
Dr. S. Ramana Kumar Joga, EEE Department**

**Date: 10/03/2025 – 22/3/2025
Venue: Department of EEE**

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About the Institute

Dadi Institute of Engineering & Technology is a top ranked Engineering and Management College affiliated to Jawaharlal Nehru Technological University, GV. The Institute is NAAC Accredited, ISO Certified and also associated with many professional bodies in the field of Engineering, Technology and Management. It strives to promote the highest standards among the students and enable them to build a New World. Dadi Institute of Engineering & Technology is distinctive among institutions of higher learning. Founded in 2006 by Sri Dadi Veerabhadra Rao, an academician and former Minister as the first multicultural and co- educational college in Anakapalle which admits only academically promising students.

About EEE Department

The Department of EEE was established in the year 2006. It offers B.Tech.program, with an initial intake of 120. It also offers MTech program in Power & Industrial drives with an intake of 36. The department has good infrastructural facilities and has full-fledged laboratories equipped with adequate hardware and software. The faculty members are actively involved in research and are publishing papers in reputed national and international journals/conferences.

About the course

Python is one of the most widely used programming languages in machine learning (ML), and many ML job listings require it as a core skill. This course equips aspiring machine learning practitioners with essential Python skills that help them stand out to employers.

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Website: www.diet.edu.in, 9963993229 E-mail:, principal@diet.edu.in

Course Instructor:
Dr. S. Ramana Kumar Joga
Associate Professor, EEE Department
Dadi Institute of Engineering & Technology

Duration:
One week: (10-03-2025– 22/03/2025)

Overview & Need for the Course:

- How to implement core machine learning algorithms, including linear regression, decision   trees, and SVM, for classification and regression tasks.
- How to apply data preparation techniques and manage bias-variance tradeoffs to optimize model performance.
- How to evaluate model performance using metrics, cross-validation, and hyperparameter tuning to ensure accuracy and reliability.

Course Objectives:
  - Learn new concepts from industry experts
  - Gain a foundational understanding of a subject or tool
  - Develop job-relevant skills with hands-on projects
  - Earn a shareable career certificate from IBM

Python is one of the most widely used programming languages in machine learning (ML), and many ML job listings require it as a core skill. This course equips aspiring machine learning practitioners with essential Python skills that help them stand out to employers.

Throughout the course, you'll dive into core ML concepts and learn about the iterative nature of model development. With Python libraries like Scikit-learn, you'll gain hands-on experience with tools used for real-world applications. Plus, you'll build a foundation in statistical methods like linear and logistic regression. You'll explore supervised learning techniques with libraries such as Matplotlib and Pandas, as well as classification methods like decision trees, KNN, and SVM, covering key concepts like the bias-variance tradeoff. The course also covers unsupervised learning, including clustering and dimensionality reduction. With guidance on model evaluation, tuning techniques, and practical projects in Jupiter Notebooks, you'll gain the Python skills that power your ML journey. Enroll today to enhance your resume with in-demand expertise!

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Course Outcomes:

Date	Module	Topic
10-03-2025	Module -1	Introduction to Machine learning
12-03-2025	Module -2	Linear & Logistic Regression
15-03-2025	Module -3	Building Supervised Learning Models
18-03-2025	Module -4	Building Unsupervised Learning Models
20-03-2025	Module -5	Evaluating & Validation Machine Learning Models
22-03-2025	Module -6	Final project & Exam

Module -1: 3 hours :43 min
Introduction to Machine learning
This module provides you with knowledge of foundational machine learning concepts to delve deeper into applied machine learning modeling. You will learn that machine learning modeling is an iterative process with various lifecycle stages. You will also learn about the daily activities in the life of a machine learning engineer. Here, you will be introduced to various open-source tools for machine learning, including the popular Python package scikit-learn.

Module -2: 3 hours: 55 min
Linear & Logistic Regression
In this module, you will explore two foundational statistical modeling methods, linear regression and logistic regression, which are considered classical machine learning models. Linear regression, often applied in real-world problem-solving, models a linear relationship between independent variables and a dependent variable. Logistic regression, an extension of linear regression, functions as a classifier and can handle nonlinear relationships through input transformation. By implementing these models, you'll gain insight into their limitations and better understand the advancements offered by modern machine learning models.

Module -3: 5 hours: 55 min
Building Supervised Learning Models
In this module, you'll learn about implementing modern supervised machine learning models. You will start by understanding how binary classification works and discover how to construct a multiclass classifier from binary classification components. You'll learn what decision trees are, how they learn, and how to build them. Decision trees, which are used to solve classification problems, have a natural extension called regression trees, which can handle regression problems. You'll learn about other supervised learning models, such as KNN and SVM. You'll learn what bias and variance are in model fitting and the tradeoff between bias and

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variance inherent to all learning models in various degrees. You'll learn strategies for mitigating this tradeoff and work with models that do a very good job accomplishing that goal.

Module -4: 5 hours: 30 min
Building Unsupervised Learning Models

In this module, you'll explore unsupervised learning, a machine-learning approach that doesn't require labeled data. Instead of using correct answers, these algorithms identify patterns in data based on similarity. These patterns form clusters in an N-dimensional feature space, where data points that are close together can be considered clusters. Clusters may have a hierarchical structure, similar to natural systems such as galaxies or biological taxonomies. You'll learn about clustering algorithms and how unsupervised learning can reduce features for other modeling tasks, using Python to implement various clustering and dimensionality reduction techniques.

Module -5: 5 hours :40 min
Evaluating & Validation Machine Learning Models

In this module, you will learn how to evaluate the performance of supervised machine learning models using various metrics, depending on whether you are building classification or regression models. You will explore hyperparameter tuning techniques like cross-validation to prevent overfitting and ensure an unbiased model evaluation. Additionally, you will learn about regularization techniques for linear regression to mitigate overfitting caused by noise and outliers. Finally, you will gain hands-on experience in building, fine-tuning, and evaluating models using these techniques.

Module -6: 4 hours: 30 min
Final project & Exam

This module focuses on applying and demonstrating the skills you have gained throughout the course by completing a comprehensive final assignment. In this assignment, you will analyze historical rainfall data to develop and optimize a classification model. You will perform feature engineering, evaluate the model's performance using different classifiers, and summarize your findings through visualizations. Once completed, your assignment will be graded automatically by an AI grading tool in the next section.

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Project

Comprehensive digital literacy program.

- Micro sites for college to organize content for their students.
- Content creation and hosting facilities to colleges.
- Internship.
- Available on website and mobile app as well..

Course Areas

- Digital basic
  - Basic IT skills
  - Data management
- Digital soft skills
  - Analytical ability
  - Learning and innovation
- Digital Tech trends
  - Blockchains
  - Cyber security
- Infosys internal
  - Information system
  - Training
- Marketing
  - Experiential showcase
  - Services – API economy

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DEPARTMENT OF ELECTRICAL & ELCTRONICS ENGINEERING
ASSESSMENT

Name of the Add on Course: Machine Learning with Phyton
(10-03-25- 22-03-2025)
 Date of exam :22-03-2025
Regd.No.:
Marks:
Name of the student:

1. What is Machine learning?
   a) The selective acquisition of knowledge through the use of computer programs
   b) The selective acquisition of knowledge through the use of manual programs
   c) The autonomous acquisition of knowledge through the use of computer programs
   d) The autonomous acquisition of knowledge through the use of manual programs

2. K-Nearest Neighbors (KNN) is classified as what type of machine learning algorithm?
   a) Instance-based learning
   b) Parametric learning
   c) Non-parametric learning
   d) Model-based learning

3. Which of the following is not a supervised machine learning algorithm?
   a) K-means
   b) Naïve Bayes
   c) SVM for classification problems
   d) Decision tree

4. What's the key benefit of using deep learning for tasks like recognizing images?
   a) They need less training data than other methods.
   b) They're easier to explain and understand than other models.
   c) They can learn complex details from the data on their own.
   d) They work faster and are more efficient computationally.

5. 5. Which algorithm is best suited for a binary classification problem?
   a) K-nearest Neighbors

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b) Decision Trees
c) Random Forest
d) Linear Regression

6. 6. What is the key difference between supervised and unsupervised learning?
a) Supervised learning requires labeled data, while unsupervised learning does not.
b) Supervised learning predicts labels, while unsupervised learning discovers patterns.
c) Supervised learning is used for classification, while unsupervised learning is used for regression.
d) Supervised learning is always more accurate than unsupervised learning.

7. . Which type of machine learning algorithm falls under the category of "unsupervised learning"?
a) Linear Regression
b) K-means Clustering
c) Decision Trees
d) Random Forest

8. 8. Which of the following statements is true about AdaBoost?
a) It is particularly prone to overfitting on noisy datasets
b) Complexity of the weak learner is important in AdaBoost
c) It is generally more prone to overfitting
d) It improves classification accuracy

9. 9. Which one of the following models is a generative model used in machine learning?
a) Support vector machines
b) Naïve Bayes
c) Logistic Regression
d) Linear Regression

10. An artificially intelligent car decreases its speed based on its distance from the car in front of it. Which algorithm is used?
a) Naïve-Bayes
b) Decision Tree
c) Linear Regression
d) Logistic Regression

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Training in ICT enabled Lecture Hall 24

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DEPARTMENT OF ELECTRICAL & ELCTRONICS ENGINEERING

ATTENDANCE SHEET

ADD ON COURSE: Machine Learning with Phyton(10-03-25- 22-03-2025)

Sl.No	Roll.No	Student Name	10-03-2025	11-03-2025	12-03-2025	13-03-2025	15-03-2025	17-03-2025	18-03-2025	19-03-2025	20-03-2025	21-03-2025	22-03-2025
1	22U41A0201	BANDARU TEJASWI											
2	22U41A0202	BONDA LIKITHA											
3	22U41A0203	BUDDHA OM SAI VASANTHI											
4	22U41A0204	DULAM DEVI SRI PRASAD											
5	22U41A0205	DULLA VANAJA											
6	22U41A0206	DWARAPUREDDI SURIBABU											
7	22U41A0207	GALLA BHARGAV											
8	22U41A0208	GURRALA PAVANI											
9	22U41A0209	KOLATA PRABAS VENKATA SAI											
10	22U41A0210	MAJJI SHANMUKH NAIDU											
11	22U41A0211	MALLA SUKUMAR ARJUN											
12	22U41A0212	MOLLI MOUNIKA											
13	22U41A0213	MUCHUPALLI SAI											
14	22U41A0214	NETALA JHANSI											
15	22U41A0215	PADALA MANOJ											
16	22U41A0216	PANDALA HEMALATHA											
17	22U41A0217	PATTI YELLARAO											
18	22U41A0218	RAYAVARAPU ABHIRAM											
19	22U41A0219	REKHA DHARMENDRA											
20	22U41A0220	SAIDALA REVANTH KUMAR											
21	22U41A0221	SHYAM RAJU REDDY M											
22	22U41A0222	VADDI KARTHIK											
23	22U41A0223	VEPADA PAVANI											
24	22U41A0224	VILLURI KIRTHANASRI											
25	22U41A0225	YALLAPU NIHARIKA											
26	22U41A0226	YELLAPU DHANUSH											
27	23U45A0201	ADARI KUMANIKA SUSHMA											
28	23U45A0202	ADARI PUSHPA RAJU											
29	23U45A0203	ALLA VENKATA YOSHTHA											
30	23U45A0204	ARAVA YESWANTH											
31	23U45A0205	ATAVA VINAY KUMAR											

Sl.No	Roll No	Name	Sign	Sign	Sign	Sign	Sign	Sign
32	23U45A0207	CHIKKALA UDAY KIRAN						
33	23U45A0209	DWARAPUDI PAVAN KUMAR						
34	23U45A0210	GEDDADA VENKATA SAI RAM						
35	23U45A0211	KARNAM AKHILA						
36	23U45A0212	KATHA BHARATH SAI						
37	23U45A0213	KONA SURYA PRAKASA RAO						
38	23U45A0214	MATCHA KARTHIK						
39	23U45A0215	MNDI JAGADEESH						
40	23U45A0217	NOTHUKURI SAI PRAKASH						
41	23U45A0218	PALLELA JAGAN DATTU						
42	23U45A0219	PILLA JANARDHAN KUMAR						
43	23U45A0220	SALAPU JAHNAVI						
44	23U45A0221	SAPPA CHANDINI						
45	23U45A0222	SARAGADAM VAMSI						
46	23U45A0223	SIMMA RAMYA						
47	23U45A0224	SWAYAMVARAPU MANIKANTA						
48	23U45A0225	TAGARAMPUDI YAGNA PRAKASH						
49	23U45A0226	VEMULAPUDI VENKAT JASWANTH						
50	23U45A0227	YEDDU RAMU						
51	23U45A0228	REGETI SAMUEL RAJ						
52	23U45A0229	KANAKALA CHARAN SRI						

Course Instructor

HoD,EEE 24/3/24

Head of the Department
Electrical & Electronics Engg.
Dadi Institute of Engg. Tech.
Anakapalli - 531 002

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for successfully completing the course

Explore Machine Learning using Python

during 10-03-2025 to 22-03-2025

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KOLATA PRABAS VENKATA SAI

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VADDI KARTHIK

for successfully completing the course

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KARNAM AKHILA

for successfully completing the course

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during 10-03-2025 to 22-03-2025

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This certificate is awarded to

MINDI JAGADEESH

for successfully completing the course

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This certificate is awarded to

PILLA JANARDHAN KUMAR

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TAGARAMPUDI YAGNA PRAKASH

for successfully completing the course

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This certificate is awarded to

KANAKALA CHARAN SRI

for successfully completing the course

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during 10-03-2025 to 22-03-2025

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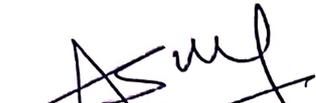Accredited by NAAC with 'A' Grade and Inclusion u/s 2(f) & 12(B) of UGC Act
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NH-16, Anakapalle – 531002, Visakhapatnam, A.P.
Website: www.diet.edu.in, 9963993229 E-mail:, principal@diet.edu.in

In conclusion, this Python-based machine learning workshop provides a solid foundation for understanding and applying machine learning techniques to real-world problems. By leveraging Python's versatility and powerful libraries like Scikit-learn, Pandas, and NumPy, participants gain the ability to explore and analyze data, build models, and make predictions.

Course Instructor

HoD of EEE 28/3/25

Principal

Head of the Department
Electrical & Electronics Engg.
Dadi Institute of Engg. Tech.
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Website: www.diet.edu.in, 9963993229 E-mail:, principal@diet.edu.in

DEPARTMENT OF ELECTRICAL & ELCTRONICS ENGINEERING
ADD ON COURSE: Machine Learning with Phyton (10-03-25- 22-03-2025)
One Week add on course

Participants' Feedback

Academic Year: 2024-25 Name of the Participant: Buddha. OH Sai Vasai

Regd.No.:

Institute he/she belongs to: Dadi Institute of Engineering & Technology
This Questionnaire is intended to collect information relating to your satisfaction towards the add on course. The information provided by you will be kept confidential and will be used as feedback for quality improvement of the programmed conducted by the Institution in future.

1. The add on course was relevant for me
   A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [B]
2. The content of the add on course was very comprehensive
   A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]
3. The OVERALL content of the add on course was excellent
   A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]
4. The trainers had very strong expertise in the area
   A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [B]
5. The trainers had excellent communication skills
   A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]
6. The trainers were very well prepared for the class
   A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [B]
7. The class timings were very convenient
   A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]
8. The class used in the session was very appropriate
   A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [B]
9. The registration process was extremely efficient and smooth
   A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [B]

B.DLSaiVasanthi.

Signature of the participant

DADI INSTITUTE OF ENGINEERING &TECHNOLOGY
An Autonomous Institute
Approved by A.I.C.T.E & Permanently affiliated to JNTU GV
Accredited by NAAC with 'A' Grade and Inclusion u/s 2(f) & 12(B) of UGC Act
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DEPARTMENT OF ELECTRICAL & ELCTRONICS ENGINEERING
ADD ON COURSE: Machine Learning with Phyton (10-03-25- 22-03-2025)
One Week add on course

Participants' Feedback

Academic Year: 2024-25 Name of the Participant: Vaddi.Karthik.

Regd.No.:

Institute he/she belongs to: Dadi Institute of Engineering & Technology

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2. The content of the add on course was very comprehensive
    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]
3. The OVERALL content of the add on course was excellent
    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]
4. The trainers had very strong expertise in the area
    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [B]
5. The trainers had excellent communication skills
    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [B]
6. The trainers were very well prepared for the class
    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]
7. The class timings were very convenient
    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [B]
8. The class used in the session was very appropriate
    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [B]
9. The registration process was extremely efficient and smooth
    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]

Signature of the participant

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ADD ON COURSE: Machine Learning with Phyton (10-03-25- 22-03-2025)
One Week add on course

Participants' Feedback

Academic Year: 2024-25 Name of the Participant: *Pandala . Hemalatha*

Regd.No.:

Institute he/she belongs to: Dadi Institute of Engineering & Technology

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    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]
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5. The trainers had excellent communication skills
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6. The trainers were very well prepared for the class
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8. The class used in the session was very appropriate
    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]
9. The registration process was extremely efficient and smooth
    A. Excellent   B. Good   C. Average D. Satisfactory   E. Poor   [A]

P. Hemalatha .

Signature of the participant