

## Registration Process

Registration link will be activated by 10.15 AM on 12<sup>th</sup> May 2026

<https://forms.gle/Sabx16FNGLr7CtqBA>

Last date of registration: 14<sup>th</sup> May 2026 (5:00 PM)

Criteria of Selection: First-cum-First Serve  
Selected candidates will be informed via email by 5.00 AM on 15<sup>th</sup> May 2026.

The selected candidates must submit the registration fee by 5:00 PM on or before 16<sup>th</sup> May 2026.

- ✓ Open to Faculty, Ph.D. Scholars, and PG Students (Internal & External)
- ✓ Prerequisite: Basic computer skills; knowledge of Python basics is desirable.
- ✓ Maximum seat availability: 30 (Preference will be given to external faculty members for 10 seats.)

## Fee Details:

PG/PhD Students – ₹500

Internal Faculty Members – ₹1,000

(Application should be submitted through Proper Channel)

External Faculty / Scientists – ₹2,000

(No TA/DA will be admissible. Accommodation and food arrangements will be made on a payment basis.)

## Patron

Dr. P. S. Pandey,  
Hon'ble Vice Chancellor,  
RPCAU, Pusa.

## Convenor

Dr. Amaresh Chandra,  
Dean, CBS&H,  
RPCAU, Pusa.

## Organizing Secretary

Dr. Mahesh Kumar,  
Assoc. Prof (Ag. Stat) & HoD,  
Statistics & Computer Applications

## Course Coordinator

Er. Puneet Dheer,  
Asstt. Prof. (Computer Sc. & Engg.)

## Co-Course Coordinators

Dr. Parinita Das, Asstt. Prof.  
(Bioinformatics)



## Training-cum-Workshop on Advanced Machine Learning Methods

19<sup>th</sup> - 23<sup>rd</sup> May 2026

📍 Inaugural Venue: Mahabhashya Hall

Organized by  
**Department of Statistics and Computer Applications,**  
College of Basic Sciences & Humanities,  
Dr. Rajendra Prasad Central Agricultural University,  
Pusa, Samastipur, Bihar.

## About RPCAU

Dr. Rajendra Prasad Central Agricultural University (RPCAU), Pusa, established on 7<sup>th</sup> October 2016 (formerly Rajendra Agricultural University, founded in 1970). The name Pusa is already a legend in Agricultural Terminology of the world. The history of Pusa dates back to July 5, 1784 more than 240 years ago, when a Stud farm was established at Poosah(Pusa), led by Lieutenant Major Frazer (Superintendent. 1793-1808) to breed cavalry horses through a sanad with the seal of East India Company at a rental fee of 1500 siccas for the land occupied. As the birth place of agricultural education and research in India, the university continues to advance teaching, research, and extension in agriculture and allied sciences, with special focus on bihar.

## About Training-cum-Workshop

This programme is part of a four-module series designed to build comprehensive expertise in Artificial Intelligence for agricultural applications, covering Basic Machine Learning, Advanced Machine Learning, Deep Learning, and Advanced Deep Learning. The second module focuses on Advanced Machine Learning techniques, including feature engineering, model optimization, ensemble methods, and their implementation using modern computational tools. Since intelligent data analysis and predictive modelling are becoming essential in agricultural research and decisionmaking, this module aims to strengthen participants' ability to develop, evaluate, and apply advanced AI based solutions effectively in agricultural systems



## Resource Persons

- Er. Puneet Dheer, Asstt. Prof. (Computer Sc. & Engg.)
- Dr. Parinita Das, Asstt. Prof. (Bioinformatics)
- Er. Tushar Kumar Pandey, Asstt. Prof (Computer Applications)
- Dr. Nitesh Kumar Sharma, Asstt. Prof. (Bioinformatics)
- Dr. Moumita Baishya, Asstt. Prof. (Ag. Stat.)
- Dr. Manjubala M, Asstt. Prof. (Ag. Stat.)
- Dr. Saista Tabssum, Asstt. Prof. (Mathematics)
- External Resource Persons

## Contact Details:

- Er. Puneet Dheer  
Phone Number: 9580225038  
Email Id: puneetdheer108@rpcau.ac.in
- Dr. Parinita Das  
Phone Number: 9614963824  
Email Id: parinitadas@rpcau.ac.in

## Day 1 - Advanced Classification Techniques

**Session 1:** Logistic Regression

**Session 2:** Naïve Bayes

**Session 3:** Support Vector Machine (SVM)

## Day 2 - Advanced Regression & Regularization

**Session 4:** Ridge

**Session 5:** LASSO

**Session 6:** Elastic Net

## Day 3 - Ensemble Learning Methods

**Session 7:** Boosting Methods (AdaBoost)

**Session 8:** Gradient Boosting Methods (XGBoost, etc)

## Day 4 - Model Evaluation, Validation & Optimization

**Session 9:** Model Evaluation Metrics, Model Validation Techniques, Overfitting & Underfitting

**Session 10:** Hyperparameter Optimization, Model Selection, Performance Visualization

## Day 5 - Feature Engineering & Model Interpretation

**Session 11:** Feature Engineering Basics, Handling Different Types of Data

**Session 12:** Feature Transformation Techniques, Feature Selection

**Session 13:** Handling Missing Values (Imputation)

✓ **All participants are requested to bring their own laptops for hands-on practice**