Saraswathi Vidya Bhavan's College of Pharmacy, Dombivli, Maharashtra

In collaboration with

BV Patel Education Foundation, Ahmedabad, Gujarat

Organizes

Two Days National Workshop on Statistical Analysis & Machine Learning Using Python in Pharmaceutical Sciences

Date: 30th November - 1st December 2026

Time: 8:30 am - 5:30 pm

Venue:

Saraswathi Vidya Bhavan's College of Pharmacy,
Sankara Nagar, Sonarpada, Dombivli (E)
www.svbpharmacy.org

ABOUT US

Saraswathi Vidya Bhavan's College of Pharmacy, Dombivli, Maharashtra



Saraswathi Vidya Bhavan's College of Pharmacy (SVBCP), is one of the premier establishments that has been nurtured under the guidance of the Founder President, Dr. R. Varadarajan., established in the year 1993, is managed by the Saraswathi Vidya Bhavan trust, affiliated to the University of Mumbai. The institute offers D. Pharm., B. Pharm., M. Pharm. in two disciplines, viz. Pharmacognosy & Phytochemistry, Quality Assurance, and Ph.D. in the discipline of Pharmacognosy and Phytochemistry.

The institution is approved by the AICTE, PCI, and DTE Maharashtra State. The institute is NBA accredited for B. Pharm. program for years 2022-2025. The institute comprises a magnificent building of Ground + 3 floors on a sprawling land of 5 acres, with excellent infrastructure, conducive to learning, research, and higher studies. The college is equipped with sophisticated instruments like HPLC, ELISA Plate reader, Clinical Analyser, FTIR, Flash Chromatography, Spray Drier, etc. CCSEA-approved animal house facilities are also available for both internal & external research students.

Website: www.svbpharmacy.org

BV Patel Education Foundation, Ahmedabad, Gujarat

BV Patel Education Foundation (formerly known as Shri Bhupendra V. Patel Education Foundation and earlier known as Shri B.V. Patel Education Trust), is named after the First Drug Controller of Gujarat State Shri Bhupendrabhai V. Patel. Vision and Mission of the Foundation are to organize and conduct educational programs in the field of pharmacy and allied sciences and to support pharma industry and academia with skilled manpower, scientists, technocrats and management professionals. To achieve this aim, the Foundation organizes Hands on Training Workshops, Faculty Development Programmes, Technician Development Programmes with various Universities, Colleges, Private Laboratories, Companies and institutions across India. The Foundation also conducts Certificate Courses for pharma and allied science graduates to prepare them for industry oriented skilled human resources. The Foundation is also working to come up with innovative programmes to support students and promote educational activities across India in healthcare.

Website: www.bvpedufoundation.com (www.bvpedutrust.com)

ABOUT WORKSHOP

- The growing role of computational methods and data analysis in pharmaceutical sciences has created a need to strengthen faculty competence in Python programming, biostatistics, and machine learning. The inclusion of these areas in the NEP curriculum highlights the importance of preparing pharmacy educators to integrate statistical reasoning and computational applications into their teaching. Faculty development in these areas is essential to support effective classroom instruction, practical demonstrations, and student learning through pharmaceutical examples.
- Python provides an accessible, open-source platform linking programming, biostatistics, and machine learning. Using pharmaceutical examples, faculty can teach data handling, statistical reasoning, visualisation, and introductory predictive modelling, with emphasis on selecting appropriate methods and interpreting results.
- This two-day national workshop aims to prepare pharmacy faculty to teach introductory Python, biostatistics, and machine learning through guided exercises and syllabus-aligned case studies. Participants will interpret outputs and adapt worked examples into classroom demonstrations and student assignments. The workshop provides foundational training to support further preparation for teaching these courses.

WORKSHOP OBJECTIVES

- Explain Python fundamentals and their relevance to the B. Pharm. syllabus.
- Use Python to organise, clean, summarise, and visualise pharmaceutical datasets.
- Apply basic biostatistical methods and explain test selection, assumptions, and interpretation.
- Understand fundamental machine learning algorithms and workflows, and interpret their applications in pharmaceutical sciences.
- Adapt worked Python examples into classroom demonstrations, student exercises, and assessment tasks.

LEARNING OUTCOMES

By the end of the workshop, participants will be able to:

- understand Python fundamentals and apply programming techniques for handling, cleaning, analysing, and visualising pharmaceutical datasets.
- develop skills in applying basic biostatistical methods, selecting appropriate statistical tests, and interpreting results.
- understand fundamental machine learning algorithms and their applications in pharmaceutical and healthcare sciences.
- enable faculty members to integrate Python, biostatistics, and machine learning concepts into classroom teaching, student assignments, and assessment activities.

RESOURCE PERSON



MR. PRASHANT KADAM

Staff Security Researcher
Trellix (Formerly known as
Mcafee Technologies)
Bangalore



DR. RAJINI PEDDI

Department of Mathematics & Statistics
Bhavan's Vivekananda College of Science,
Humanities & Commerce
Sainikpuri, Telangana

CONVENERS

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CO-ORDINATOR

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SCHEDULE

DAY 1: 30/11/2026 Python Fundamentals & Introduction to Biostatistical Data Analysis		
8:30- 9:30	Breakfast and registration	
9:30- 10:00	Introduction and Felicitation	
10:00-11:15	Session 1	Introduction to Python & Python Environment Mr Prashant Kadam
11:15 – 11:30	Tea Break	
11:30 – 13:00	Session 2	Python Programming Fundamentals Mr Prashant Kadam
13:00 – 13:30	Lunch Break	
13:30 – 14:45	Session 3	Data Handling with NumPy & pandas Dr Rajini Peddi
14:45 – 15:00	Tea Break	
15:00 – 16:15	Session 4	Descriptive Statistics, Probability & Plots Dr Rajini Peddi
16:15 – 17:15	Session 5	Hypothesis Testing & Test Selection Dr Rajini Peddi
DAY 2: 01/12/2026 Biostatistics & Introduction to Machine Learning using Python		
8:30- 9:30	Breakfast	
9:30- 10:45	Session 1	ANOVA & Non-parametric Tests Dr Rajini Peddi
10:45 – 11:00	Tea Break	
11:00 – 12:15	Session 2	Correlation, Regression & Dose–Response Dr Rajini Peddi
12:15 – 12:45	Lunch Break	
12:45 – 14:00	Session 3	ML Foundations & Regression Models Dr Rajini Peddi
14:00 – 14:15	Tea Break	
14:15 – 15:30	Session 4	Classification, Trees & Model Evaluation Dr Rajini Peddi
15:30 – 17:00	Session 5	Clustering & Classroom ML Case Study Dr Rajini Peddi
17:00 – 17:30	Valedictory Session, Feedback & Certificate Distribution	

WHO SHOULD ATTEND?

- Teaching faculties
- Industrial Person
- Research Scholars

REGISTRATION DETAILS

- Last Date to Register: 26th November 2026.
- Only 25 participants will be registered on a first-come, first-served basis.

Click the Registration Link:

- https://forms.gle/6Ww3CxDS6nSvjEVt9
- Registration Fees: Rs. 1000/- only

Payment Details:

- Name: SVB'S College of Pharmacy (M. Pharm.)
- Bank name: Indian bank
- Branch: Dombivli East
- Account no.: 718994087
- IFSC code: IDIB000D047
- Link for Payment:

REGISTRATION QR

PAYMENT QR

CLICK OR SCAN THE QR CODES.