

THEMES

The workshop focuses on Deep Learning and Machine Learning, offering a platform for academics and industry professionals to explore theoretical and practical approaches to problem-solving using these techniques. It covers supervised, unsupervised, and reinforcement learning, including topics like neural networks, CNN, RNN, and optimization algorithms. Participants will gain insights into applying deep architectures for tasks in vision and natural language processing, making it valuable for those in soft computing, AI, and predictive modeling. The workshop promotes idea exchange, skill enhancement, and collaboration among researchers and engineers in these fields.

A Complete Understanding of
**Data Science,
Artificial Intelligence,
Machine Learning,
and Deep Learning**



OBJECTIVES

- Bring researchers and experts together to discuss and share their experiences in the fields of Soft Computing and Machine Learning.
- Facilitate the participants to get both theoretical and hands-on experience on different aspects of these subjects.
- Provide a forum for exchanging ideas and information on current and new research topics in these subjects.
- Provide a platform to present and discuss recent advancements.
- Increase international collaborations among university-industry-institutions.

COURSE CONTENT

- Classification (NB, DT, SVM, KNN)
- Unsupervised Learning
- Deep Learning & Neural networks
- Autoencoders (Contractive, Deep)
- Advanced Models (RNN, LSTM)
- Convolutional Networks
- Real-world Applications (CV, NLP, etc)
- Practical Python Sessions

Faculty Development Program

on
**“AI, Machine Learning
and Data Science”**



Shri Mata Vaishno Devi University

on

January 15-19, 2024

Patron: Prof. (Dr.) Pragati Kumar,
Vice Chancellor, SMVDU

In Association with

*RP126 High End Computing
AI & Deep Learning Lab*

Co-ordinator: Prof. Baijnath Kaushik,
Head of CSE Department



Venue: Shri Mata Vaishno Devi University, Katra

About the University

Shri Mata Vaishno Devi University (SMVDU) is a residential university inaugurated in August 2004 by then-President Dr. A.P.J Abdul Kalam. Situated on 470 acres in the Trikuta Hills, it aims to be a scientific and technical university of excellence, fostering talented human resources dedicated to societal service while upholding human values through education, scholarship, and research at international levels. The University is consistently ranked among Top 100 By National Institutional Ranking Framework (NIRF).





Prof. Haider Banka
Head, CSE, IIT Dhanbad
Lecture on AI, ML, Data Science



Prof. Nitin Aulak
Associate Professor, CSE, IIT Ropar
Lecture on Computer Vision and
Image Analysis



Prof. P. Radha Krishna
Professor, CSE, NIT Warangal
Lecture on Deep Learning Foundation
and Transformers



Prof. Badri N Subudhi
Associate Professor, ECE, IIT Jammu
Lecture on AI and Machine Learning



Prof. Amit Prakash
Professor, Comm. & Tech., IPU Delhi
Lecture on Artificial Neural Network,
ML, and Data Science



Prof. Sudip Misra
Professor, CSE, IIT Kharagpur
Lecture on ML, DL and Data Science



Prof. M. Srinivas
Asst. Professor, CSE, NITWarangal
Lecture on Medical Imaging



Prof. Bajinath Kaushik
Head, CSE, SMVDU Katra
Lecture on Medical Image Processing
and Classification

[Click Here for FDP Schedule](#)
15-19 Jan 2024, 10:00AM to 4:00PM

Registration

Who can Register?

Program is open to faculty members and students in any department or university.

Registration Fees

Registration Only: ₹ 1,000
Registration + Accomodation: ₹ 3,000

LINK TO REGISTER



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Contact Us



+91 9654482709



bajinath.kaushik@smvdu.ac.in



www.smvdu.ac.in



Katra, J&K, 182320

Organising Comitee Dr. Akshama Chadha, Dr. Yusera Khan, Mr. Abhigya Mahajan



High End Computing AI and DL Lab

The Research Project RP-126 "High-End Computing AI and Deep Learning Lab" at Shri Mata Vaishno Devi University serves as a dynamic hub for cutting-edge research in machine learning and deep learning. Focused on computer vision, natural language processing, and reinforcement learning, the lab has achieved significant milestones. The lab's endeavors extend to critical domains like predicting suicidal ideation and conducting sentiment analysis, resulting in noteworthy research papers and patents that contribute to advancements in these fields.

Co-Ordinator: Dr. Bajinath Kaushik

