



JOINT RESEARCH & DEVELOPMENT CENTER (JRDC)

ALL INDIA INSTITUTE OF AYURVEDA (AIIA), GOA

An Autonomous Organization under the Ministry of Ayush, Govt. of India

&

INSTITUTE OF APPLIED STATISTICS, KANPUR

A Statistical Training & Research Institute

Jointly Organizing



One-Month Online Certificate Programme

Artificial Intelligence for AYUSH Healthcare & Research



01st July - 31st July, 2026



Live Session : 06:00 PM to 07:00 PM

In Collaboration with



**CENTRAL COUNCIL FOR RESEARCH IN
AYURVEDIC SCIENCES (CCRAS), NEW DELHI**



**NATIONAL COMMISSION FOR
INDIAN SYSTEM OF MEDICINE (NCISM), NEW DELHI**

Under



MAHARSHI CHARAK AYURVEDA RESEARCH & DEVELOPMENT SCHEME

Convener



Prof. (Dr.) Pradeep Kumar Prajapati
Director
All India Institute of Ayurveda
(AIIA), New Delhi



Prof. (Dr.) G. S. Tomar
Director AYUSH & Chairperson
Maharshi Charak Ayurveda
R&D Scheme, Institute of Applied
Statistics, Kanpur



Prof. (Dr.) Sujata Kadam
Dean (Academic & Administration)
All India Institute of Ayurveda
(AIIA), Goa



Dr. Shubham Pandey
Project Director
Maharshi Charak Ayurveda
R&D Scheme



Prof. (Dr.) Seema Dwivedi
National Coordinator
Maharshi Charak Ayurveda
R&D Scheme



Prof. (Dr.) Mohan Joshi
Associate Dean (UG & PhD), AIIA Goa
& State Coordinator
Joint R&D Center
(AIIA-Goa & IAS-Kanpur)



Prof. (Dr.) Vithal Huddar
Associate Dean (PG)
PG In-charge
All India Institute of Ayurveda
(AIIA), Goa



Dr. Pravin M. Bhat
Research Coordinator
All India Institute of Ayurveda
(AIIA), Goa



Er. Amit Tiwari
Organizing Secretary
IT Head & I/C, RD Cell
Institute of Applied Statistics
Kanpur, Uttar Pradesh



Dr. Awanish Pandey
Joint Organizing Secretary
Medical officer
Government Ayurvedic Hospital
Handia, Prayagraj

One-Month Online Certificate Programme on ARTIFICIAL INTELLIGENCE FOR AYUSH HEALTHCARE & RESEARCH



ABOUT PROGRAMME ON ARTIFICIAL INTELLIGENCE FOR AYUSH HEALTHCARE & RESEARCH

This one-month foundational certificate programme is designed to introduce AYUSH scholars, clinicians, and researchers to the principles and practical applications of Artificial Intelligence in Ayurveda and integrative healthcare research. The programme begins from a beginner level and gradually progresses toward practical exposure. It emphasizes conceptual clarity, structured understanding of AYUSH datasets, basic machine learning techniques, statistical reasoning, text mining of classical literature, and ethical AI practices. The curriculum is specifically contextualized for AYUSH systems, integrating examples from Ayurveda clinical practice, Prakriti analysis, pharmacology, and classical textual research.

OBJECTIVE

The primary objective of the programme is to::

- Build foundational understanding of Artificial Intelligence in AYUSH healthcare.
- Enable participants to recognize and structure AYUSH research data.
- Introduce basic machine learning concepts in a simple and practical manner.
- Provide hands-on exposure to beginner-friendly AI tools.
- Develop competence in statistical analysis and data visualization.
- Introduce text mining techniques for classical Ayurvedic literature.
- Promote responsible, ethical, and bias-aware use of AI in healthcare research

REGISTRATION FEE:

1500/- INR Per Participant

- E-Certificates will be provided to all the participants.
- Access of Recorded Session and PDF Notes will be provided.

REGISTRATION:

For registration please visit
our official website (click link):
www.iasdcs.com

OR

SCAN QR CODE



Institute of Applied Statistics



www.iasdcs.com

WHO SHOULD ATTEND ?

- Faculty members and researchers from AYUSH institutions
- Postgraduate (PG) and PhD scholars in AYUSH disciplines
- Clinicians and practitioners interested in evidence-based AYUSH practice
- Research associates, project staff, and scientists working in AYUSH research projects
- Healthcare professionals and academicians involved in clinical research, guideline development, or policy formulation in AYUSH



DURATION OF THE PROGRAMME

01st July - 31st July, 2026



SCHEDULE AND TIMINGS

06:00 - 07:00 PM (As per schedule)

SESSIONS OFFERED ON PLATFORMS



Program Coordinator



Er. Amit Tiwari

Organizing Secretary

IT head & I/C, R&D Cell
Institute of Applied Statistics
Kanpur, Uttar Pradesh
Contact : +91-9807912182

Dr. Pravin M. Bhat

Research Coordinator

All India Institute of Ayurveda
(AIIA), Goa



www.iasdcs.com



rdcell@iasdcs.com



www.aiiagooa.org



1st July, 2026 (Wednesday) : Inaugural Ceremony

FOUNDATIONS: AI & AYUSH RESEARCH ECOSYSTEM

Session 01 02 July 2026

Understanding Artificial Intelligence the Simple Way

- What is AI? Myths vs Reality
- AI vs Machine Learning vs Data Science
- Real-world Healthcare Examples
- Why AI Matters for AYUSH

Session 02 03 July 2026

AI in Ayurveda & Integrative Medicine: The Emerging Revolution

- AI in Ayurveda, Siddha, Unani
- Digital Health & Integrative Medicine
- National & Global Trends
- Future Scope in AYUSH Research

Session 03 06 July 2026

Decoding AYUSH Research Data: From OPD to Classical Texts

- Clinical & OPD Data
- Prakriti Assessment Parameters
- Experimental & Pharmacological Data
- Classical Textual Sources

Session 04 07 July 2026

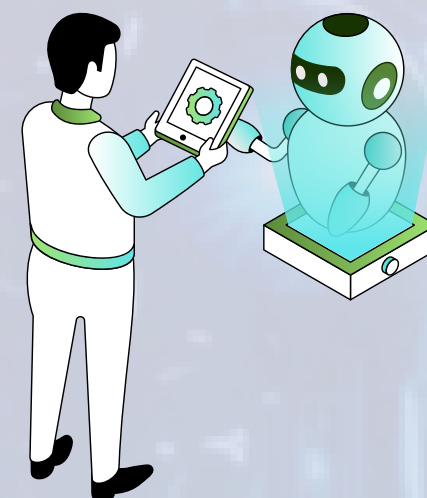
How Machines Learn: Basics of Machine Learning Explained

- Supervised vs Unsupervised Learning
- Classification vs Regression
- Examples in Lifestyle Disorders & Conceptual Flow of Model Building

Session 05 08 July 2026

Training vs Testing: How AI Learns from AYUSH Healthcare Data

- Training & Testing Dataset
- Overfitting & Underfitting (Simple Explanation)
- Accuracy & Model Performance Basics



WORKING WITH AYUSH DATA (BEGINNER TOOLS)

Session 06 09 July 2026

Understanding Variables in Ayurveda Research

- Dosha, Dhatu, Agni Variables
- Quantitative vs Qualitative Variables
- Encoding AYUSH Parameters & Structuring Clinical Dataset

Session 07 10 July 2026

Cleaning the Data: Preparing AYUSH Datasets for AI

- Missing Values & Data Formatting
- Normalization (Basic Concept)
- Avoiding Common Errors

Session 08 13 July 2026

Predicting Disease Patterns: Classification Made Simple

- Classification, Binary vs Multi-Class, Example: Prakriti Classification
- Simple Model Logic

Session 09 14 July 2026

Hands-On with Orange: Build Your First AI Model

- Introduction to Orange Interface
- Loading AYUSH Dataset
- Drag-and-Drop Workflow
- Running a Classification Model

Session 10 15 July 2026

Clinical Workflow Without Coding: Introduction to KNIME

- KNIME Interface Basics
- Building a Simple Clinical Workflow
- Data Visualization in KNIME
- Exporting Results





STATISTICS & VISUALIZATION FOR AYUSH RESEARCH

Session 11 17 July 2026

Statistics for AYUSH Scholars: Concepts Made Easy

- Mean, Median, Standard Deviation
- Correlation Basics & Clinical Research Relevance
- Avoiding Statistical Misinterpretation

Session 12 21 July 2026

Choosing the Right Variables: Feature Selection Simplified

- Why Variable Selection Matters, Reducing Noise in Data
- Clinical Relevance vs Statistical Relevance
- Avoiding Over-Complex Models

Session 13 22 July 2026

Hands-On with JASP / Jamovi: Statistical Testing Made Easy

- Loading AYUSH Data
- T-test & ANOVA Basics & Correlation Analysis
- Exporting Statistical Tables

Session 14 23 July 2026

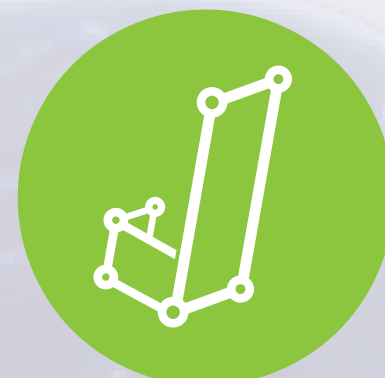
Exploring Models with WEKA: Beginner Machine Learning

- WEKA Interface
- Running Simple Classifiers & Comparing Model Outputs
- Understanding Confusion Matrix

Session 15 24 July 2026

Storytelling with Data: Creating Graphs for Thesis & Publication

- Charts & Plots, Clinical Trend Visualization
- Avoiding Misleading Graphs & Preparing Publication-Ready Figures



jamovi Stats.
Open.
Now.

TEXT MINING, NETWORKS & RESPONSIBLE AI

Session 16 27 July 2026

Text Mining in Ayurveda: Extracting Knowledge from Classical Literature

- Text Mining & Importance in Classical Research
- Structured vs Unstructured Text
- Applications in AYUSH

Session 17 28 July 2026

Hands-On with Voyant Tools: Analyzing Charaka & Sushruta

- Uploading Text Data
- Word Frequency Analysis
- Keyword Context & Identifying Concept Clusters

Session 18 29 July 2026

Mapping Knowledge: Herb-Disease-Dosha Networks Explained

- Basics of Network Thinking
- Nodes & Edges, Simple Network Mapping Concept

Session 19 30 July 2026

Ethics, Bias & Data Privacy in AYUSH AI Research

- Responsible AI
- Cultural Sensitivity in AYUSH Data
- Bias in Models, Indian Healthcare Data Governance

Session 20 31 July 2026

From Data to Insight: Final Integration & Discussion

- End-to-End AI Workflow Recap
- Common Mistakes to Avoid
- Future Learning Pathways

VOYANT
see through your text



1st August 2026 (Saturday) Assessment Test



One-Month Online Certificate Programme on ARTIFICIAL INTELLIGENCE FOR AYUSH HEALTHCARE & RESEARCH



ABOUT ORGANIZERS:

ALL INDIA INSTITUTE OF AYURVEDA (AIIA), GOA

The All India Institute of Ayurveda (AIIA), Goa is an apex satellite institute of the All India Institute of Ayurveda, New Delhi, located in Dhargal, North Goa. Inaugurated by Prime Minister Narendra Modi on 11 December 2022, it serves as a premier hub for Ayurvedic education, research, and tertiary. The institute operates a 250-bed fully air-conditioned hospital designed to blend traditional Ayurvedic wisdom with modern diagnostic tools. The campus features advanced labs for Ayur Informatics and Dravyaguna (medicinal plants) to conduct drug standardization, quality control, and safety evaluations. Offers PG and PhD studies, focusing on both foundational research and practical clinical application. The campus includes a 250-bed hospital with specialized units like the Sushruta OT Complex and specialized units for pediatrics (Kaumarbhritya) and bone health (BMD). Actively engaged in international and national collaborations, focusing on standardizing Ayurvedic medicines and evaluating their efficacy.



INSTITUTE OF APPLIED STATISTICS, KANPUR, UTTAR PRADESH

The Institute of Applied Statistics is a premier institution dedicated to building human resource capacity in Statistics through specialized training and multidisciplinary research. It conducts training programmes across the country and regularly organizes International, National, State, and Institutional level workshops for researchers and academicians.

The Institute's mission is to develop skilled professionals to meet emerging research challenges. It offers short- and medium-term programmes, develops need-based training modules in collaboration with experts, and provides consultation to government and private sectors in training design, survey implementation, and research activities.

CERTIFICATE PROGRAMME HIGHLIGHTS

- ✓ Comprehensive live sessions on Artificial Intelligence for AYUSH Healthcare & Research.
- ✓ Expert-led hands-on sessions and query discussions at the end of each session during the programme to address doubts.
- ✓ Online Assessment Tests at the end of the programme for E-Certification.
- ✓ Online Quiz at the end of each session for revision of the topics learned.
- ✓ Study material in the form of PDFs will be shared with all registered participants of the programme.
- ✓ All registered participants will receive an e-certificate after completion of the programme on their registered email ID.
- ✓ Access to all recorded sessions of the programme for revision purposes.
- ✓ Opportunity to network with researchers and professionals.



www.iasdcs.com



rdcell@iasdcs.com



www.aiiagoa.org