

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

Malkaganj, Delhi – 110007

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

2024-2025

IQAC centre : Student Learning Centre, Hansraj College

Centre Coordinator: Dr. Pooja Arora

Name of the course: SLC-23: Artificial Intelligence and Prompt Engineering
(SLC23)

Course Convener: Ms. Madhavi Moni K, Dr. Anurag Kakkar

Student Coordinator: Keshav Sharma

Start Date: 17th February 2025

End Date: 26th April 2025

Duration: 40 Hrs

Number of Registered Participants: 26

Number of Participants who successfully finished the course: 26

Report:

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

Malkaganj, Delhi – 110007

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE



HANSRAJ COLLEGE
UNIVERSITY OF DELHI



Internship Cell,
Student Learning Center and
IQAC Hansraj
in collaboration with
Samarth Bharat

PRESENTS

**Report of Certificate Course On
Artificial Intelligence and Prompt Engineering
(SLC 23)**

17TH FEBRUARY 2025 - 26TH APRIL 2025

Duration: 40 Hours

Mode: Offline

Patron:

(Prof.) Dr. Rama

Principal, Hansraj College

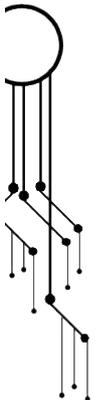
Coordinators:

Ms. Alka Kacker, Director IQAC

Dr. Pooja Arora, Convenor SLC

Ms. Madhavi Moni K., Assistant Professor Hansraj College

Dr. Anurag Kakkar, Assistant Professor Hansraj College



हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

Malkaganj, Delhi – 110007

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

[About the Course](#)

The AI & Machine Learning course, launched by the Internship Cell in collaboration with Samarth Bharat and the Student Learning Center, offered a structured 20-session learning path covering both foundational and advanced AI concepts.

The course began with an introduction to AI, ML types, applications, and model evaluation. Participants then explored regression models, classification techniques, and ensemble methods like Random Forest and AdaBoost through hands-on sessions.

As the course progressed, topics such as Support Vector Machines, Neural Networks, Deep Learning, and hyperparameter tuning were introduced. Practical labs enabled students to build and train real models using tools like TensorFlow and OpenCV.

Advanced modules covered NLP, Prompt Engineering, Transformers, Voice AI, and CNNs, preparing participants to solve real-world problems in domains like healthcare and finance.

This course successfully bridged theoretical understanding with applied skill-building, enabling participants to confidently build, evaluate, and deploy AI models for real-world problems across diverse domains such as healthcare, finance, and marketing.

[Course Structure:](#)

Duration- 40 Hours

Offline Classes: Monday (3:30-5:30), Saturday (11-1 PM)

No. Of Participants: 26



हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

Malkaganj, Delhi – 110007

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

COURSE OUTLINE

Introduction to Artificial Intelligence

1. Overview of AI
2. Applications of AI
3. AI Ethics and Governance
4. Future Trends in AI

Machine Learning Fundamentals

1. Introduction to Machine Learning
2. Supervised Learning
3. Unsupervised Learning
4. Reinforcement Learning
5. Evaluation and Model Selection

Deep Learning

1. Introduction to Deep Learning
2. Neural Networks and Training
3. Convolutional Neural Networks (CNNs)
4. Recurrent Neural Networks (RNNs)
5. Practical Deep Learning

Natural Language Processing (NLP)

1. Introduction to NLP
2. Text Processing and Feature Extraction
3. Sentiment Analysis and Text Classification
4. Advanced NLP Techniques
5. Practical NLP

AI in Computer Vision

1. Introduction to Computer Vision
2. Image Processing Techniques
3. Object Detection and Recognition
4. Image Segmentation
5. Practical Computer Vision

Introduction to Prompt Engineering

1. Overview of Prompt Engineering
2. Applications and Use Cases
3. Understanding Prompts
4. Crafting Effective Prompts
5. Common Pitfalls and How to Avoid Them
6. Introduction to ChatGPT
7. Dynamic Prompting and Real-World Scenarios

AI in Business

1. AI Strategy and Implementation
2. AI in Marketing and Sales
3. AI in Operations and Supply Chain
4. AI in Finance and Risk Management

Hands-on Lab Sessions

1. Setting Up AI Development Environment
2. Data Collection and Preprocessing
3. Building and Training Models
4. Model Evaluation and Optimization
5. Deployment and Integration
6. Capstone Project

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

Malkaganj, Delhi – 110007

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

AI & Machine Learning Course – Session Plan Summary.

The AI & Machine Learning Certification Course, collaboratively organized by the Internship Cell of Hansraj College, Samarth Bharat, and the Student Learning Center, Hansraj, followed a structured and comprehensive 20-session module. Spanning foundational concepts to advanced applications, the sessions were designed to blend theoretical insights with practical, hands-on learning. The course was delivered by expert academicians and industry professionals, offering students exposure to real-world AI tools and practices.

Session	Facilitator	Course Content	Hands-on
Day 1 & 2	Dr. Ankit Rajpal, Dept. of Computer Science, University of Delhi	Introduction to AI & ML, Types of Machine Learning, Model Evaluation & Selection, Bias-Variance Trade-off	Data Wrangling using wget, UCI ML Repository, and
Day 3 & 4	Dr. Sheetal Rajpal, Dept. of Computer Science, Dyal Singh College, DU	Linear & Multiple Linear Regression, Logistic Regression for Classification, Introduction to Regularization	Regression and Classification Models
Day 5 & 6	Mr. Ankur Agarwal, Founder, ViaLYTICS	Decision Trees, Ensemble Techniques: Bagging, Boosting, Random Forest & AdaBoost, Random Forest & AdaBoost	Tree-based Models
Day 7 & 8	Mr. Ankur Agarwal	Support Vector Machines and Kernel Functions, Logistic Regression with a Neural Network Perspective	SVM for Binary Classification
Day 9 & 10	Mr. Ankur Agarwal	Introduction to Deep Neural Networks, Forward Propagation, Activation Functions and Hyperparameter Tuning	
Day 11 & 12	Mr. Ankur Agarwal	Training Deep Neural Networks, Parameter Initialization and Backpropagation	Binary Classification with Neural Networks
Day 13 & 14	Mr. Ankur Agarwal	K-Means Clustering and Image Segmentation, Prompt Engineering: Techniques, Use Cases, Common Pitfalls, Introduction to ChatGPT & Dynamic Prompting	
Day 15 & 16	Mr. Ankur Agarwal	Introduction to Natural Language Processing (NLP), Feature Extraction and Text Processing, RNNs, GRU, LSTM & Variants,	Sentiment Analysis and Text Classification
Day 17 & 18	Mr. Ankur Agarwal	Transformer Architecture, Foundation Models, and LLMs, Science of Voice AI: Comparing Voice and Text Data	Voice Bots and Text Bots
Day 19 & 20	Mr. Ankur Agarwal	Convolutional Neural Networks (CNNs), Stride, Padding, Kernels, Translation Invariance, Parameter Computation	Image Classification Tasks

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

Malkaganj, Delhi – 110007

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

List of Students

S.No	Email ID	Name	College
1	manish.leekha.work@gmail.com	Manish Leekha	IIT Madras (online degree)
2	singhprachi7060@gmail.com	Prachi singh	Hansraj college
3	adityaarya12003@gmail.com	Aditya Kumar	Hansraj College
4	suhanipandey2790@gmail.com	Suhani panday	Hansraj College
5	vikkimishrabcc2018@gmail.com	Vivek Mishra	Hansraj College
6	Sohankumar7087@gmail.com	Sohan	Hansraj College
7	lavisha9113@gmail.com	Lavisha Kapoor	Hansraj College
8	gupta.chandramouli616@gmail.com	CHANDRAMOULI GUPTA	Hansraj College
9	balramkumaryevdu@gmail.com	BALRAM KUMAR	Hindu College
10	patelsahabpardeepdangi@gmail.com	Pardeep singh patel	Hansraj College
11	knimish100511@gmail.com	Nimish Khandelwal	Hansraj College
12	devanshsawhney20@gmail.com	Devansh Sawhney	Sri Venkateswara College
13	dyashoda1995@gmail.com	TANISHKA	Daulat Ram College
14	gautamverma1333@gmail.com	Gautam	Hansraj College
15	ritikakaur0510@gmail.com	Ritika Kaur	RDIAS
16	shubhankarjagdale@gmail.com	Shubhankar Jagdale	Hansraj College
17	sunnyarora31415@gmail.com	Mihir Arora	Hansraj college
18	yugsingodiya14@gmail.com	Yug Singodiya	Hansraj college
19	savibansal2207@gmail.com	Savi Bansal	Lakshmibai
20	siddhantcommune12@gmail.com	Siddhant Pandey	Hansraj College
21	vdivyanshi2003@gmail.com	Saloni	Vidyavati mukund lal girls college
22	bhoomishka.ncr@gmail.com	Bhoomishka	Shyama Prasad Mukherjee College for Women
23	creativeedge767@gmail.com	Muskan	Lakshmi Bai college
24	suhaanigupta190604@gmail.com	Suhaani Gupta	Maharaja Surajmal Institute
25	siddhi.24hcs4185@ddu.du.ac.in	Siddhi Sharma	deen dayal upadhayay
26	urvxshi@gmail.com	Urvashi Garg	daulat ram college

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

Malkaganj, Delhi – 110007

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

Pictures of the Session:



Know Your Speaker

Dr. Rajan Gupta
AI Professor, Researcher, Author & Speaker

Generative AI | Computational AI | Algorithms | Data Mining | and Implementing AI in education and Digital Transformation for Fortune 500 organizations

Education

- PhD in Computer Science and Large Data Mining, IITM, Sonoma
- Doctorate in Public Information Systems and Analytics, IIT
- Master in Business Analytics and Intelligence, IIT
- Master in Business Management, MIT, USA
- Master in Computer Applications, IIT
- Bachelor in Computer Science, IIT

Research

- 22+ Research Publications in top Journals and Conferences, 7 Books in AI - ML
- Contributed to Global Projects by United Nations and European Council

Recognitions

- CAF & ACE Member, INFORMS USA, Global - American Statistical Association, USA
- AI Champion Leader Award 2022 & AI Mentor 202 Award 2022 by IITM
- AI Under 40 Data Scientist 2022 by AIM, Service Excellence Award 2022
- Best Research Paper at IJITTC 2023, Best Research Paper Award 2022 by IITM



हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

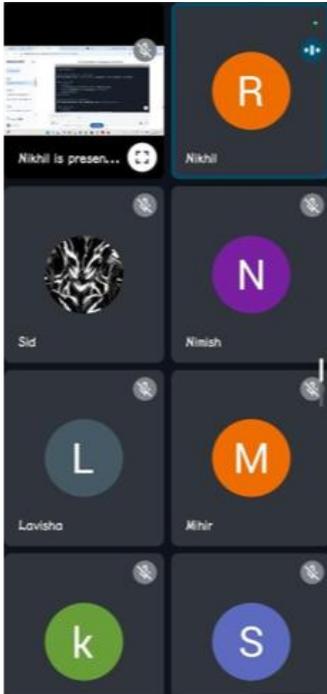
Malkaganj, Delhi – 110007

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE



Videos of the Session:

- Video 1
- Video 2

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

Malkaganj, Delhi – 110007

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE

Testimonial of the Students

Date = 04th July, 2025

Hello Everyon,

My name is Lavisha Kapoor. I did my B.Com(Hons) from Hansraj College, University of Delhi. First of all am very thankful for this AI course as from being Commerce background I was not familiar with the AI concept but this course helps me to learn AI from the basic and even to explore advance concept. Also the content of this course was easy to follow and effective which makes ~~overly~~ learning easy and this has genuinely sparked my interest in AI and very thankful to Hansraj College for bringing up this course.

Thank You

Lavisha Kapoor
(B.Com Hons)
(Hansraj College)

Lavisha

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

मलकागंज, दिल्ली - 110007

दूरभाष : 011-27667458, 27667747

ई-मेल : principal_hrc@yahoo.com

वेबसाइट : www.hansrajcollege.ac.in



HANSRAJ COLLEGE

UNIVERSITY OF DELHI

Mahatma Hansraj Marg

Malkaganj, Delhi – 110007

Tel.: 011-27667458, 27667747

E-mail: principal_hrc@yahoo.com

Website: www.hansrajcollege.ac.in

NAAC ACCREDITED 'A++' GRADE COLLEGE