



रा.इ.सू.प्रौ.सं
NIELIT

**National Institute of Electronics
and Information Technology**

(An ISO 9001:2015 certified Organization)

Ministry of Electronics and Information Technology
Government of India

Online Course Prospectus

Prompt Engineering for Data & AI Professionals

Course Description

This course provides a comprehensive introduction to Prompt Engineering for Data & AI Professionals, enabling learners to design, refine, and optimize prompts for effective interaction with AI models to extract insights, automate tasks, and support data-driven decision-making. Students will gain hands-on experience using real-world LLMs and AI tools through practical assignments and industry-relevant projects, making this course ideal for business professionals, analysts, developers, and students looking to leverage AI and master prompt engineering for intelligent solutions..

[Click Here to
Register](#)

OR

Scan QR Code



Who can attend?

Anyone who is interested to build their career in Prompt Engineering, including:

- ❖ Complete Beginners
- ❖ Professionals looking to bridge gaps in their knowledge.

Course Content

- ❖ **Foundations of Prompt Engineering**
 - ❖ Introduction to Generative AI & LLMs
 - ❖ Basics of Prompting
 - ❖ Prompt Types
 - ❖ Prompt Design Principles
- ❖ **Prompting for Data Tasks.**
 - ❖ Prompting for Data Cleaning
 - ❖ Prompting for Visualization
 - ❖ Prompting for Python & SQL
 - ❖ Chain-of-Thought & Advanced Prompting
- ❖ **Advanced Prompt Engineering**
 - ❖ Few-shot & Examples Engineering
 - ❖ System Prompts & Role Design
 - ❖ Prompt Templates
 - ❖ Prompt Chaining
- ❖ **Prompt Engineering (Industry Differentiator)**
 - ❖ Prompt Systems & Thinking Like an AI Engineer
 - ❖ Advanced Prompting Techniques
 - ❖ Prompt Optimization & Performance Tuning
 - ❖ Evaluation & Testing of Prompts (Real Industry Skill)

Prerequisite

- ❖ Candidate must have computer / laptop.
- ❖ Software: Windows OS (7 or above), A Browser & (AI Tools- can be downloaded from respective websites)
- ❖ Internet connection with good speed.

Duration

- ❖ 4 Weeks (without project) / 6 Weeks (with project)

The internship/industrial training programme includes about 40 Hrs of intensive interactive instructor-led online sessions and about 60 Hrs of practical assignments that student can perform at their end. In some training programmes, the facility of virtual lab can also be extended subject to availability. The six weeks programme includes two weeks

(20 Hrs.) of project that student is required to develop and a presentation is to be made by student (in Online mode) to the faculty.

Certificate

Digitally signed *e-Certificate* will be issued to each participant after completion of the training. Participant needs to maintain minimum 75% attendance during the online classes and is required to score minimum 50% marks in the online test/quiz in order to successfully complete the course.

How to Apply

Interested candidates may apply online on the link <https://nielit.gov.in/haridwar/content/online-courses> after submitting the Course Fee in following account:

Name : NIELIT Haridwar

Account Number : 44306909591

IFSC Code : SBIN0012852

Bank Name : State Bank of India

Branch : Shivalik Nagar, Haridwar

You may also use our Virtual Payment Address (VPA) **nielitharidwar@sbi** for UPI Transfer.

NOTE: Copy of transaction slip is required to be uploaded at the time of filling online form. Candidate may keep a copy of the same for future reference.

Terms and Conditions

1. In case, any registered candidate could not attend the online session due to technical issue at their side there will not be any refund of the course fee and the sessions will not be repeated.
2. In case, the online course is cancelled/postponed due to some technical issue at NIELIT side and new date is not convenient to the candidate, our liability is limited to the refund of the course fee and NIELIT shall not be responsible for any consequential damages.

Course Coordinator

Mr. Kailash Chandra Joshi

Ph: 8171627088

[Email : haridwar@nielit.gov.in](mailto:haridwar@nielit.gov.in)

Faculty Profile

Mr. Ayush Kumar Sain, B.Tech (Computer Science & Engineering), M.tech (Computer Science & Engineering) with 3+ years of (Industry+Teaching) Experience



NIELIT Haridwar is the Regional Centre of NIELIT in the state of Uttarakhand and is situated in SIDCUL Haridwar. It is well known for the advanced training programmes in the areas of Future Skills such as **Cloud Computing, Machine Learning, Artificial Intelligence, Internet of Things, MATLAB, Big Data, Embedded Systems etc** in addition to the various **National Skill Qualification Framework (NSQF)** aligned long-term and short-term courses in Electronics & Information Technology. The Centre has **MOUs** with various prestigious institutions and Universities of Uttarakhand for academic collaboration, technical support, summer/industrial training and internships of the students. The Centre provides a conducive learning environment with the state-of-the-art infrastructure and expert faculties.

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